

10/08/2006,10535187e.trn

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LOGINID:SSPTASXY1626

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'HCAPLUS' AT 12:54:42 ON 10 AUG 2006
FILE 'HCAPLUS' ENTERED AT 12:54:42 ON 10 AUG 2006
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	370.35	705.76
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-52.50	-52.50

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	372.88	708.29
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-52.50	-52.50

FILE 'REGISTRY' ENTERED AT 12:55:04 ON 10 AUG 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 9 AUG 2006 HIGHEST RN 900096-56-2
DICTIONARY FILE UPDATES: 9 AUG 2006 HIGHEST RN 900096-56-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

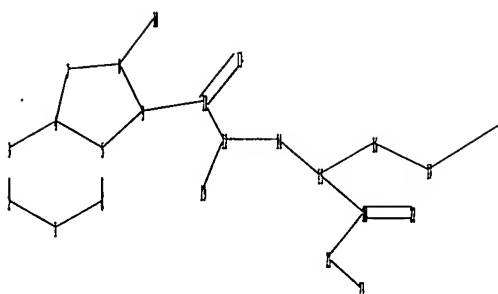
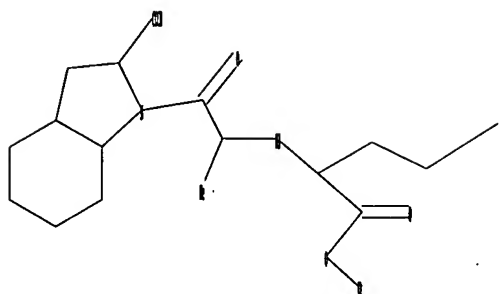
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10535187a.str

10/08/2006,10535187e.trn



chain nodes :

10 11 12 13 14 15 16 17 18 19 20 21 22 23

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

8-10 9-11 11-12 11-13 12-14 12-19 14-15 15-16 15-20 16-17 17-18 20-21
20-22 21-23

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 9-11 11-13 12-14 14-15 20-21
20-22

exact bonds :

8-10 11-12 12-19 15-16 15-20 16-17 17-18 21-23

Match level :

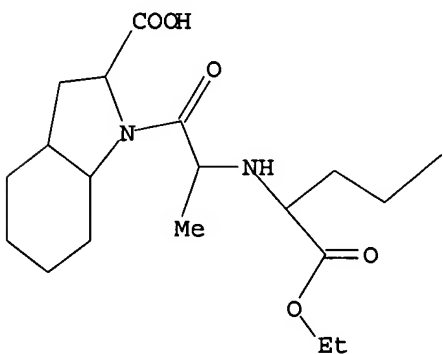
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L10 STRUCTURE UPLOADED

=> d l10

L10 HAS NO ANSWERS

L10 STR



Structure attributes must be viewed using STN Express query preparation.

10/08/2006,10535187e.trn

=> s l10

SAMPLE SEARCH INITIATED 12:55:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 320 TO ITERATE

100.0% PROCESSED 320 ITERATIONS 7 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5327 TO 7473
PROJECTED ANSWERS: 7 TO 298

L11 7 SEA SSS SAM L10

=> s l10 full

FULL SEARCH INITIATED 12:55:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6180 TO ITERATE

100.0% PROCESSED 6180 ITERATIONS 118 ANSWERS
SEARCH TIME: 00.00.01

L12 118 SEA SSS FUL L10

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.94	875.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-52.50

FILE 'HCAPLUS' ENTERED AT 12:55:45 ON 10 AUG 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 10 Aug 2006 VOL 145 ISS 7
FILE LAST UPDATED: 9 Aug 2006 (20060809/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l12/p and hydrate?
70 L12/P
149483 HYDRATE?

L13 1 L12/P AND HYDRATE?

=> d ed abs ibib hitstr 1

L13 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 13 Jul 1986
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I, II, X = Cl, CF₃; Y = (CH₂)aCHONR₅ or (CH₂)bNR₅CO; Z = (CH₂)bCONR₅ or (CH₂)cNR₅CO; B = Q-Q₄; R₁ = H, alkyl; R₂, R₅ = H, alkyl, Ph, phenylalkyl; R₃, R₄ = H, (substituted) alkyl, Ph or R₃R₄ may form a ring; R₆, R₈ = OH, (substituted) alkoxy, etc.; R₇ = H, (substituted) alkyl; a = 0-8; b = 1-8; c = 2-8; m = 1-4; n = 0, 1; p, q = 1, 0, 2] and their pharmaceutically acceptable salts, useful as antihypertensives (no data), were prepared. Thus, (2S)-[(benzyloxy)carbonyl]-S,S-perhydroindole was acylated with N-[(5S)-(ethoxycarbonyl)-5-(1S-carboxyethylamino)pentyl]-6-chloro-3,4-dihydro-1,1-dioxo-7-sulfamoyl-1,2,4-benzothiadiazin-3-yl]acetamide hydrochloride in DMF containing N-hydroxybenzotriazole hydrate and 1-[3-(dimethylamino)propyl]-3-ethylcarbodiimide-HCl at 0° to give, after deprotection of the intermediate, 1-[N-[(1S)-(ethoxycarbonyl)-5-[2-(6-chloro-3,4-dihydro-1,1-dioxo-7-sulfamoyl-1,2,4-benzothiadiazin-3-yl)acetamido]pentyl]-(S)-alanyl]-cis,syn-octahydroindole-(2S)-carboxylic acid. The prepared compds. are useful for treatment of congestive heart failure and glaucoma and had diuretic activity (no data).

ACCESSION NUMBER: 1986:406825 HCAPLUS
DOCUMENT NUMBER: 105:6825
TITLE: Benzothiadiazinyl and quinazolinyl substituted
carboxylalkyl dipeptides useful as antihypertensive
agents
INVENTOR(S): Neustadt, Bernard R.; Andrews, David R.; McNamara,
Paul E.
PATENT ASSIGNEE(S): Schering Corp., USA
SOURCE: U.S., 12 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4559340	A	19851217	US 1983-555311	19831125
US 4616012	A	19861007	US 1985-797104	19851112
US 4778795	A	19881018	US 1986-903545	19860903
US 4906635	A	19900306	US 1988-220183	19880718
US 5017567	A	19910521	US 1990-460425	19900103
PRIORITY APPLN. INFO.:			US 1983-555311	A2 19831125
			US 1985-797104	A3 19851111
			US 1986-903545	A3 19860903
			US 1988-220183	A3 19880718

IT 102605-78-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reaction of)

CCOC(=O)C(C)C(=O)NCCCNCCNC(=O)CCN1C(=O)N(C2C(=O)N2)C3CCCC3S1(=O)=Oc1cc(Cl)ccc1S(=O)(=O)N

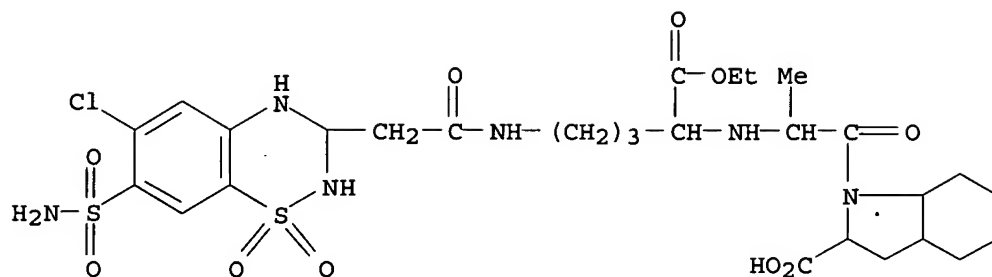
IT 102605-60-7P 102605-62-9P 102743-99-7P

RN 102605-60-7 HCAPLUS

CCOC(=O)C(C)C(=O)N1CCCC1NC(=O)CC2NC(=O)N2c3cc(Cl)cc(S(=O)(=O)N)c3

RN 102605-62-9 HCAPLUS

Young, Shawguia, Page 5



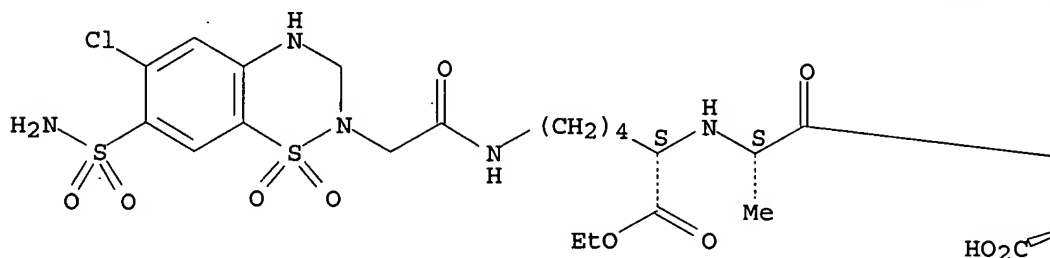
● x HCl

RN 102743-99-7 HCAPLUS

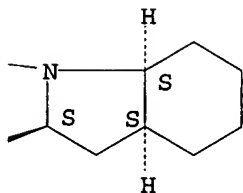
CN 1H-Indole-2-carboxylic acid, 1-[2-[[5-[[[7-(aminosulfonyl)-6-chloro-3,4-dihydro-1,1-dioxido-2H-1,2,4-benzothiadiazin-2-yl]acetyl]amino]-1-(ethoxycarbonyl)pentyl]amino]-1-oxopropyl]octahydro-, [2S-[1[R*(R*)],2α,3aβ,7aβ]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



=> s l12/p and salt?

70 L12/P

1166384 SALT?

L14

35 L12/P AND SALT?

10/08/2006,10535187e.trn

=> d ed abs ibib hitstr 1-35

L14 ANSWER 1 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 14 Jul 2006

AB The invention relates perindopril [(2S,3aS,7aS)-1-[(2S)-2-[(S)-1-(ethoxycarbonyl)butylamino]propionyl]octahydro-1H-indole-2-carboxylic acid] aralkyl ester salts used in the synthesis of perindopril. Thus, (2S,3aS,7aS)-octahydro-1H-indole-2-carboxylic acid was treated with N-[(S)-1-(ethoxycarbonyl)butyl]-L-alanine in CH₂Cl₂ in the presence of Et₃N, 1-hydroxybenzotriazole, and dicyclohexylcarbodiimide to afford 99% perindopril benzyl ester. Conversion of the latter into the oxalate salt, followed by hydrogenolysis over 5% Pd/C and reaction with tert-butylamine yielded perindopril erbumine.

ACCESSION NUMBER: 2006:680403 HCAPLUS

DOCUMENT NUMBER: 145:124844

TITLE: Process for the synthesis of (2S,3aS,7aS)-1-(S)-alanyloctahydro-1H-indole-2-carboxylic acid derivatives and use in the synthesis of perindopril
INVENTOR(S): Kumar, Ashok; Soudagar, Satish Rajanikant; Mathur, Arpana; Gunjal, Sanjay Tukaram; Panda, Nalinakshya Balaram; Jadhav, Dilip Uttam

PATENT ASSIGNEE(S): IPCA Laboratories Limited, India

SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1679072	A1	20060712	EP 2005-113099	20051230
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				

PRIORITY APPLN. INFO.: IN 2005-MU17 A 20050106

IT 107133-36-8P, Perindopril erbumine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for synthesis of alanyloctahydroindolecarboxylic acid derivs. in synthesis of perindopril)

RN 107133-36-8 HCAPLUS

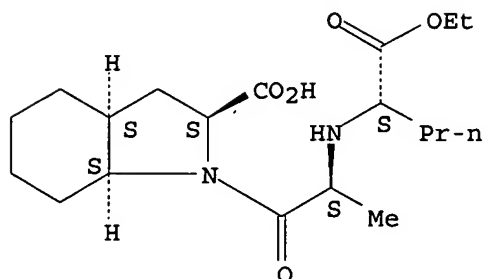
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

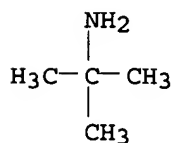
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 07 Jul 2006

AB A process for preparing perindopril erbumine, useful in the treatment of hypertension, comprises reacting an active ester of N-[1(S)-(ethoxycarbonyl)butyl]-L-alanine with an organic salt of perhydroindole-2-carboxylic acid, followed by the addition of tert-butylamine. An example using the acetoxime as active ester in acetonitrile in the presence of phosphacene afforded 90% perindopril erbumine (99.5% purity).

ACCESSION NUMBER: 2006:655550 HCAPLUS

DOCUMENT NUMBER: 145:83667

TITLE: Process for preparing perindopril erbumine

INVENTOR(S): Palomo Nicolau, Francisco; De Leon, Dorcas

PATENT ASSIGNEE(S): Quimica Sintetica, S.A., Spain

SOURCE: PCT Int. Appl., 13 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006070276	A1	20060706	WO 2005-IB3928	20051215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,				

VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

ES 2255872 A1 20060701 ES 2004-3168 20041231

PRIORITY APPLN. INFO.: ES 2004-3168 A 20041231

IT 107133-36-8P, Perindopril erbumine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
 (Preparation)

(preparation of perindopril erbumine)

RN 107133-36-8 HCAPLUS

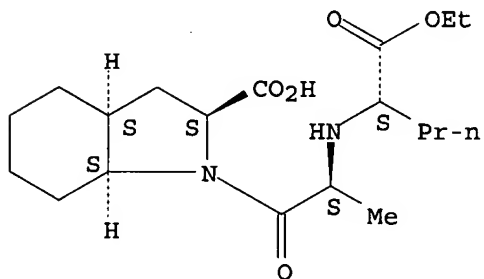
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

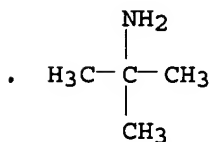
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 16 Dec 2005

AB A method for the synthesis of perindopril [(2S,3aS,7aS)-1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]propionyl]octahydro-1H-indole-2-carboxylic acid] involves coupling of (2S)-hexahydroindole-2-carboxylic acid or its benzyl ester with (R)-G-CHMeCOCl (G = Cl, Br, OH, tosyloxy, mesyloxy or trifluoromethanesulfonyloxy) and then (S)-Et 2-aminopentanoate, followed

by catalytic hydrogenation. In an example, the resp. coupling reactions were carried in CH₂Cl₂-Et₃N at room temperature and MeCN-Et₃N at reflux. Yield of perindopril following hydrogenation was 95% (enantiomeric purity 99%).

ACCESSION NUMBER: 2005:1311320 HCAPLUS
DOCUMENT NUMBER: 144:7101
TITLE: Method for synthesis of perindopril and its pharmaceutically acceptable salts
INVENTOR(S): Fugier, Claude; Dubuffet, Thierry; Langlois, Pascal
PATENT ASSIGNEE(S): Adir et Compagnie, Fr.
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1367063	A1	20031203	EP 2003-291931	20030731
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004261439	A1	20050210	AU 2004-261439	20040729
CA 2533005	AA	20050210	CA 2004-2533005	20040729
WO 2005012333	A2	20050210	WO 2004-FR2035	20040729
WO 2005012333	A3	20050324		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-291931 A 20030731
WO 2004-FR2035 W 20040729

OTHER SOURCE(S): MARPAT 144:7101

IT 82834-16-0P 107133-36-8P

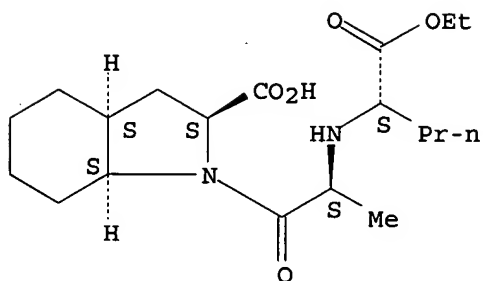
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(synthesis of perindopril from hexahydroindolecarboxylate and bromopropionyl chloride)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



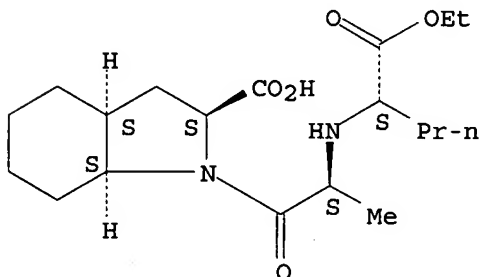
RN 107133-36-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

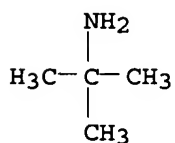
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 16 Dec 2005
 AB A method for the synthesis of perindopril [(2S,3aS,7aS)-1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]propionyl]octahydro-1H-indole-2-carboxylic acid] involves coupling of (2S)-hexahydroindole-2-carboxylic acid or its benzyl ester with (R)-G-CHMeCOCl (G = Cl, Br, OH, tosyloxy, mesyloxy or

trifluoromethanesulfonyloxy) and then (S)-Et 2-aminopentanoate, followed by catalytic hydrogenation. In an example, the resp. coupling reactions were carried in CH₂Cl₂-EtNPr-i₂ at room temperature and MeCN-Et₃N at reflux. Yield of perindopril following hydrogenation was 95% (enantiomeric purity 99%).

ACCESSION NUMBER: 2005:1311047 HCAPLUS
 DOCUMENT NUMBER: 144:7100
 TITLE: Method for synthesis of perindopril and its pharmaceutically acceptable salts
 INVENTOR(S): Fugier, Claude; Dubuffet, Thierry; Langlois, Pascal
 PATENT ASSIGNEE(S): Adir et Compagnie, Fr.
 SOURCE: Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1367062	A1	20031203	EP 2003-291930	20030731
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004261440	A1	20050210	AU 2004-261440	20040729
WO 2005012328	A2	20050210	WO 2004-FR2036	20040729
WO 2005012328	A3	20050324		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-291930 A 20030731
 WO 2004-FR2036 W 20040729

OTHER SOURCE(S): CASREACT 144:7100; MARPAT 144:7100

IT 82834-16-0P, Perindopril 107133-36-8P, Perindopril erbumine

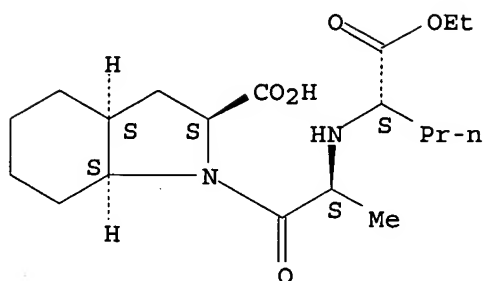
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(synthesis of perindopril from hexahydroindolecarboxylate and bromopropionyl chloride)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

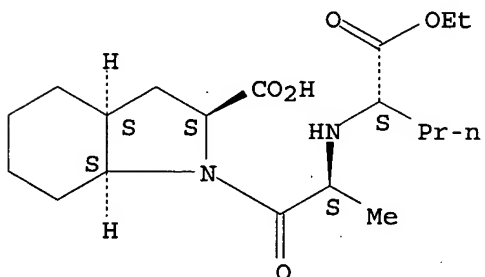


RN 107133-36-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

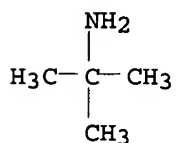
CRN 82834-16-0
 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9
 CMF C4 H11 N



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

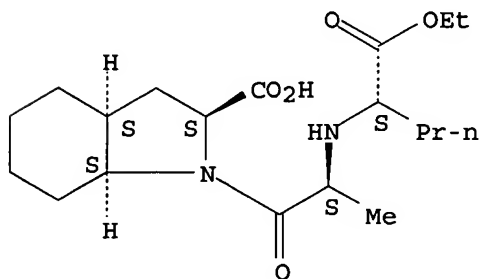
L14 ANSWER 5 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 02 Dec 2005
 AB The invention relates to a process for the preparation of the ACE inhibitor perindopril, its pharmaceutically-acceptable salts and intermediates obtained in the process. The process involves conversion of N-[(1S)-1-carbethoxybutyl]-L-alanine to the acid chloride hydrochloride

and reaction with (2S,3aS,7aS)-octahydroindole-2-carboxylic acid or a an ester or salt. The examples describe the synthesis of perindopril erbumine by reactions carried out in CH₂Cl₂.

ACCESSION NUMBER: 2005:1262577 HCAPLUS
DOCUMENT NUMBER: 144:7098
TITLE: Process for the preparation of perindopril and its salts
INVENTOR(S): Merslavic, Marjo; Smid, Janja; Tomsic, Zdenka
PATENT ASSIGNEE(S): Krka, Tovarna Zdravil D.D. Novo Mesto, Slovenia
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005113500	A1	20051201	WO 2005-EP5048	20050510
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
SI 21800	C	20051231	SI 2004-143	20040514
SI 21852	C	20060228	SI 2004-235	20040805
PRIORITY APPLN. INFO.:			SI 2004-143	A 20040514
			SI 2004-235	A 20040805
OTHER SOURCE(S): CASREACT 144:7098; MARPAT 144:7098				
IT 82834-16-0P, Perindopril 107133-36-8P, Perindopril erbumine 869954-04-1P 869954-08-5P 869954-09-6P				
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (process for preparation of perindopril and its salts)				
RN 82834-16-0 HCAPLUS				
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI) (CA INDEX NAME)				

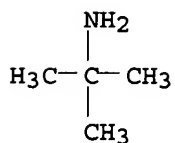
Absolute stereochemistry. Rotation (-).



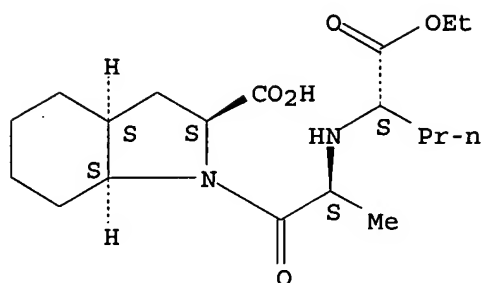
CMF C19 H32 N2 O5

Chemical structure of compound 10, a 1,4-dithiane derivative. The structure shows a 1,4-dithiane ring with a cyclohexyl group at position 2 and a carboxylic acid group at position 5. The carboxylic acid group is part of a side chain that includes a chiral center with a methyl group and a chiral center with a propyl group and an ethyl ester group.

CMF C4 H11 N



Absolute stereochemistry. Rotation (-).

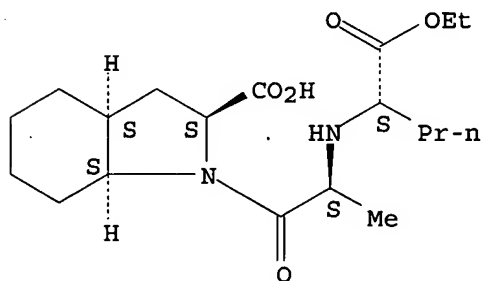


● K

RN 869954-08-5 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, monolithium salt, (2S,3aS,7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

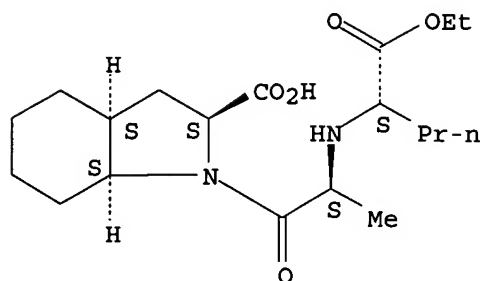


● Li

RN 869954-09-6 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, monosodium salt, (2S,3aS,7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



● Na

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 19 Oct 2005

AB A process for preparing perindopril or a pharmaceutically-acceptable salt comprises coupling a 4-halo-, 4-alkoxy- or 4-nitrobenzyl ester of (2S,3aS,7aS)-2-carboxyoctahydroindole with N-[(S)-1-carbethoxybutyl]-L-alanine (1) in the presence of DCC and HOBt, followed by catalytic hydrolgenolysis. The starting ester was obtained from (S)-indoline-2-carboxylic acid by hydrogenation-esterification and 1 was obtained from norvaline Et ester and pyruvic acid under catalytic hydrogenation conditions. The method was applied to the synthesis perindopril erbumine (20.5 g obtained from 24 g 4-chlorobenzyl ester and 21.26 g 1).

ACCESSION NUMBER: 2005:1117891 HCAPLUS

DOCUMENT NUMBER: 143:367597

TITLE: Process for the preparation of perindopril

INVENTOR(S): Kankan, Rajendra Narayanrao; Rao, Dharmaraj Ramachandra

PATENT ASSIGNEE(S): Neopharma Limited, UK

SOURCE: Brit. UK Pat. Appl., 21 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

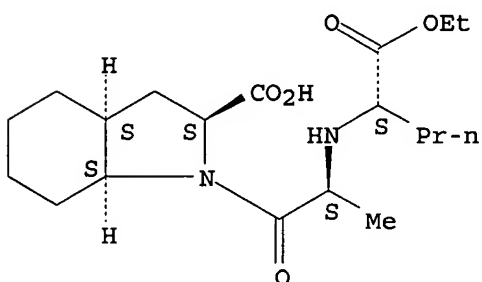
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2413128	A1	20051019	GB 2004-8258	20040413
WO 2005100317	A1	20051027	WO 2005-GB1355	20050407
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,				

MR, NE, SN, TD, TG
 PRIORITY APPLN. INFO.: GB 2004-8258 A 20040413
 OTHER SOURCE(S): MARPAT 143:367597
 IT 82834-16-0P, Perindopril 107133-36-8P, Perindopril
 erbumine
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
 (Preparation)
 (preparation of perindopril by acylation of octahydroindolecarboxylates with
 ethoxycarbonylbutylalanine)
 RN 82834-16-0 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-
 (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

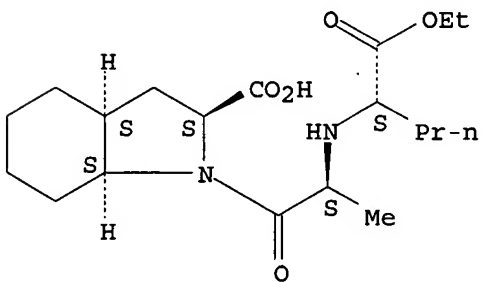


RN 107133-36-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-
 (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
 with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

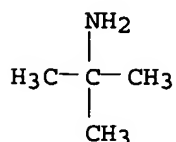
CRN 82834-16-0
 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9
 CMF C4 H11 N



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 7 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 29 Jul 2005

AB Complexes of the ACE-inhibitor perindopril, a salt, an addition salt or a derivative thereof with cyclodextrins, polyvinylpyrrolidone or hydroxypropyl cellulose, and processes for their preparation are described. E.g., complexes of perindopril erbumine with β -cyclodextrin and Me and hydroxypropyl β -cyclodextrins were prepared

ACCESSION NUMBER: 2005:673315 HCAPLUS

DOCUMENT NUMBER: 143:159626

TITLE: Inclusion complexes of perindopril

INVENTOR(S): Rucman, Rudolf

PATENT ASSIGNEE(S): LEK Pharmaceuticals D.D., Slovenia

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

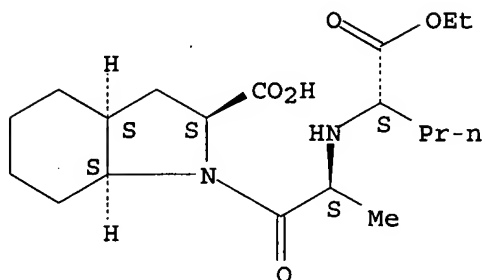
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005068490	A1	20050728	WO 2005-EP282	20050113
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
SI 21703	C	20050831	SI 2004-11	20040114
PRIORITY APPLN. INFO.:			SI 2004-11	A 20040114
IT 107133-36-8DP, Perindopril erbumine, compds., with hydroxypropyl and Me cyclodextrins 860260-85-1P 860260-86-2P 860260-87-3P 860260-88-4P 860260-89-5P				
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
(inclusion complexes of perindopril)				
RN 107133-36-8 HCAPLUS				
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)				
CM 1				
CRN 82834-16-0				

10/08/2006,10535187e.trn

CMF C19 H32 N2 O5

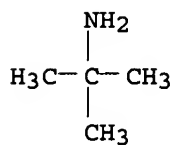
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



RN 860260-85-1 HCAPLUS

CN β-Cyclodextrin, compd. with 2-methyl-2-propanamine
(2S,3aS,7aS)-1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylate (9CI) (CA INDEX NAME)

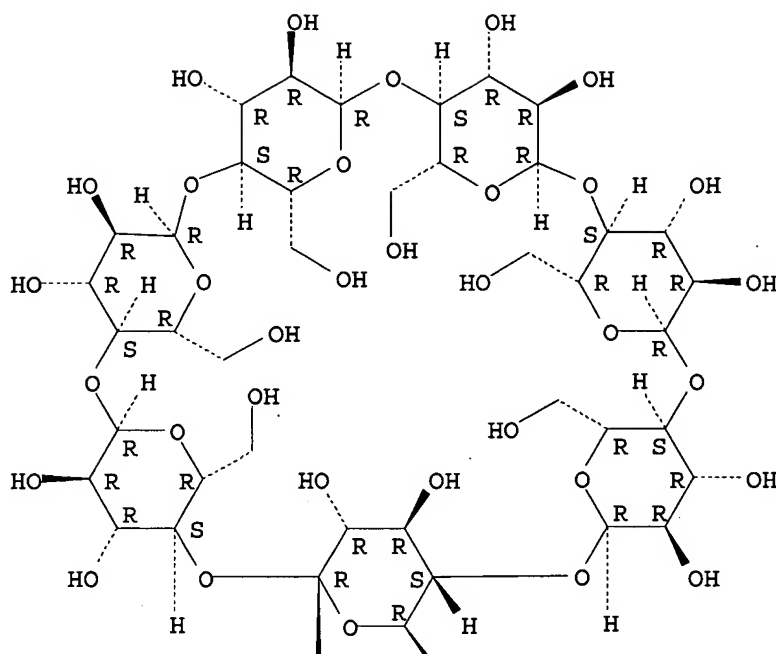
CM 1

CRN 7585-39-9

CMF C42 H70 O35

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



CM 2

CRN 107133-36-8

CMF C19 H32 N2 O5 . C4 H11 N

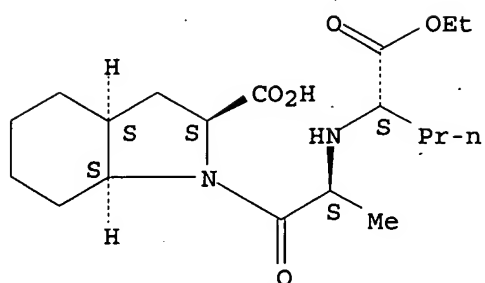
CM 3

CRN 82834-16-0

CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

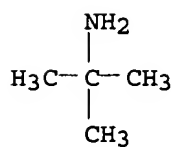
10/08/2006,10535187e.trn



CM 4

CRN 75-64-9

CMF C4 H11 N



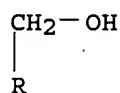
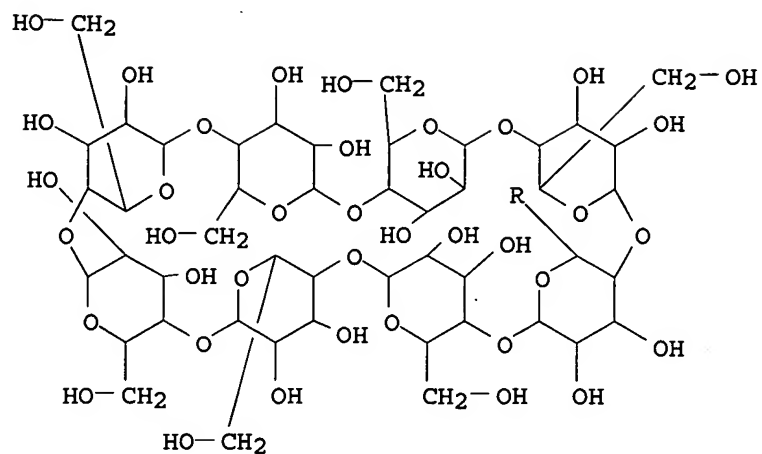
RN 860260-86-2 HCAPLUS

CN γ -Cyclodextrin, compd. with 2-methyl-2-propanamine
(2S,3aS,7aS)-1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 17465-86-0

CMF C48 H80 O40



CM 2

CRN 107133-36-8

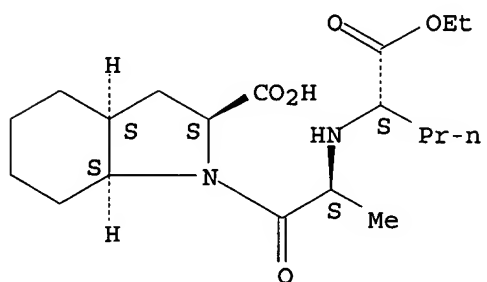
CMF C19 H32 N2 O5 . C4 H11 N

CM 3

CRN 82834-16-0

CMF C19 H32 N2 O5

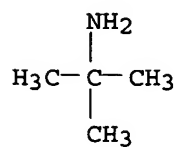
Absolute stereochemistry. Rotation (-).



CM 4

CRN 75-64-9

CMF C4 H11 N



RN 860260-87-3 HCAPLUS

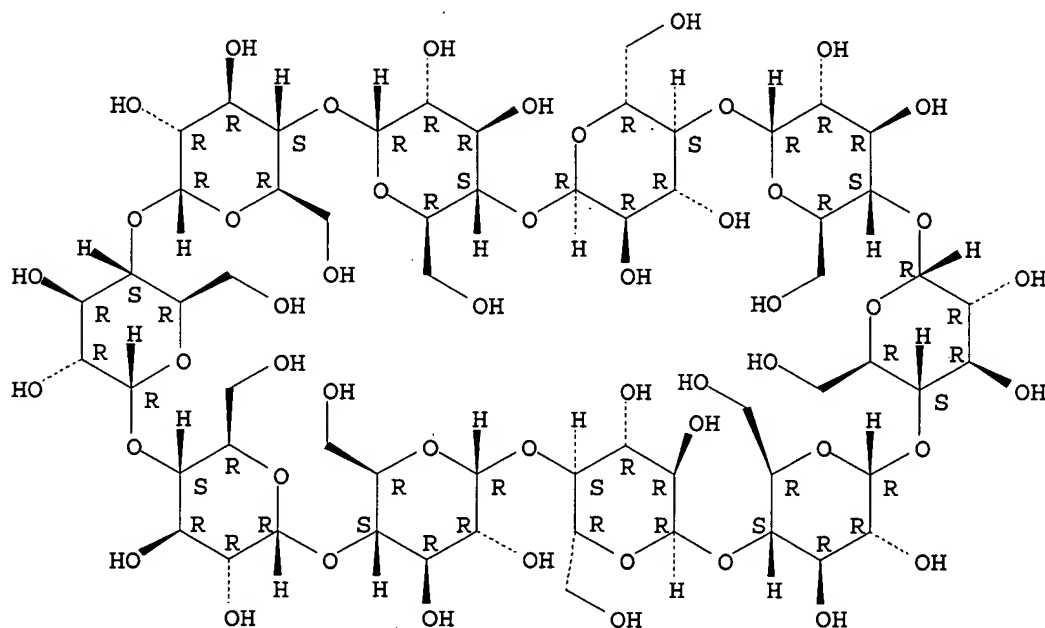
CN ε-Cyclodextrin, compd. with 2-methyl-2-propanamine
(2S,3aS,7aS)-1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 156510-98-4

CMF C60 H100 O50

Absolute stereochemistry.



CM 2

CRN 107133-36-8

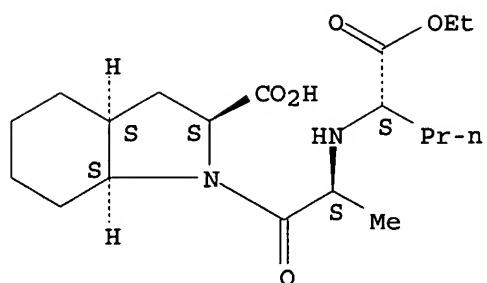
CMF C19 H32 N2 O5 . C4 H11 N

CM 3

CRN 82834-16-0

CMF C19 H32 N2 O5

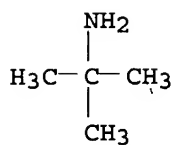
Absolute stereochemistry. Rotation (-).



CM 4

CRN 75-64-9

CMF C4 H11 N



RN 860260-88-4 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 1-ethenyl-2-pyrrolidinone homopolymer and 2-methyl-2-propanamine (1?:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107133-36-8

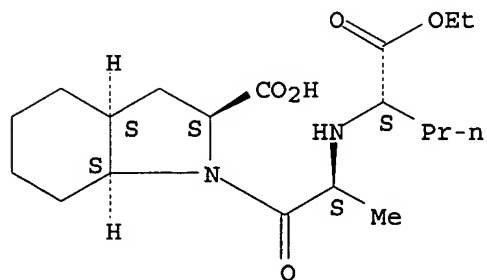
CMF C19 H32 N2 O5 . C4 H11 N

CM 2

CRN 82834-16-0

CMF C19 H32 N2 O5

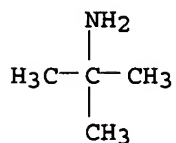
Absolute stereochemistry. Rotation (-).



CM 3

10/08/2006,10535187e.trn

CRN 75-64-9
CMF C4 H11 N

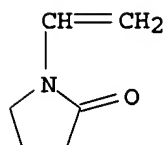


CM 4

CRN 9003-39-8
CMF (C6 H9 N O)x
CCI PMS

CM 5

CRN 88-12-0
CMF C6 H9 N O



RN 860260-89-5 HCAPLUS
CN Cellulose, 2-hydroxypropyl ether, compd. with (2S,3aS,7aS)-1-[(2S)-2-
[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-
carboxylic acid and 2-methyl-2-propanamine (? :1:1) (9CI) (CA INDEX NAME)

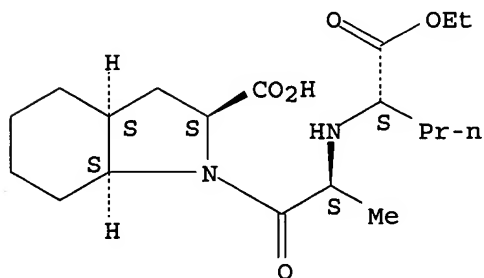
CM 1

CRN 107133-36-8
CMF C19 H32 N2 O5 . C4 H11 N

CM 2

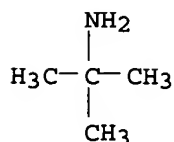
CRN 82834-16-0
CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 3

CRN 75-64-9
CMF C4 H11 N



CM 4

CRN 9004-64-2
CMF C3 H8 O2 . x Unspecified

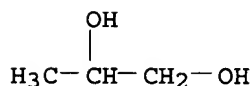
CM 5

CRN 9004-34-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 6

CRN 57-55-6
CMF C3 H8 O2



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 8 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 24 May 2005

AB The dipeptide, (I, R3OCO-CHR1NHCHR2CONR4R5 wherein R1 = Pr or phenethyl; R2 = Me, 4-trifluoroacetamidobutyl, or 4-aminobutyl; and R3 = H or ethyl), is prepared by allowing to react R3OCOCHR1NHCHR2COOH with bis(trichloromethyl) carbonate in solvent at (-20)-100°C for 1-50 h to obtain N-carboxylic anhydride and then coupling with alpha-amino acid or its derivative in organic solvent at (-20)-100°C for 1-50 h. The alpha-amino acid or its derivative, R4R5NH, is 1,2,3,4-tetrahydro-3-isoquinolinecarboxylic acid benzyl ester, 2-azabicyclo[3.3.0]octane-3-carboxylic acid, 2-pyrrolidinecarboxylic acid, or octahydro-1H-indole-2-carboxylic acid.

ACCESSION NUMBER: 2005:436413 HCAPLUS

DOCUMENT NUMBER: 143:139085

TITLE: Method for preparing N-carboxyalkyl dipeptide type angiotensin converting enzyme inhibitor

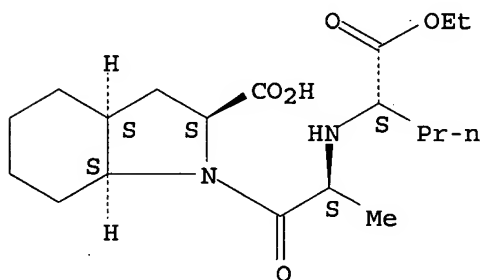
INVENTOR(S): Shi, Huilin; Zhang, Qingwen; Zhong, Jingfen; Shan, Xiaoyan; Chen, Guoliang; Zhou, Minghua

PATENT ASSIGNEE(S): Shanghai Research Institute of Pharmaceutical Industry, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

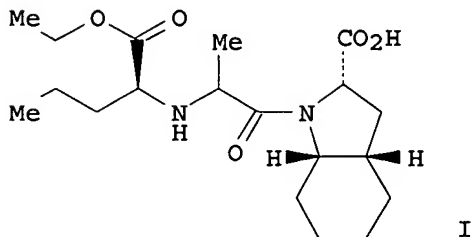
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1429835	A	20030716	CN 2002-139936	20021230
PRIORITY APPLN. INFO.:			CN 2002-139936	20021230

IT 82834-16-0P, Perindopril
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (tert-butylamine salt; method for preparing N-carboxyalkyl dipeptide type angiotensin converting enzyme inhibitor)
 RN 82834-16-0 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L14 ANSWER 9 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 29 Apr 2005
 GI



AB Crystalline perindopril erbumine (I.H2NBu-tert) is prepared and the x-ray (powder) diffraction pattern given. The process comprises reacting a

solution of perindopril (I), in a solvent selected from DMF or di-Me acetals of lower aliphatic aldehydes and ketones with tertiary butylamine and crystallization

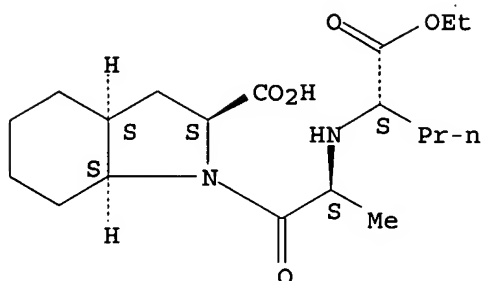
of the erbumine salt thus obtained by heating the reaction mixture to reflux, filtering hot, cooling gradually to 20-30°, and further cooling to 0-15° for 30 min-1 h and finally filtering off and drying the crystals.

ACCESSION NUMBER: 2005:371219 HCAPLUS
DOCUMENT NUMBER: 142:435775
TITLE: Novel method for preparation of crystalline perindopril erbumine
INVENTOR(S): Singh, Girij Pal; Godbole, Himanshu Madhav; Nehate, Sagar Purushottam
PATENT ASSIGNEE(S): Lupin Ltd., India
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005037788	A1	20050428	WO 2003-IN340	20031021
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003300689	A1	20050505	AU 2003-300689	20031021
EP 1675827	A1	20060705	EP 2003-818870	20031021
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPLN. INFO.:			WO 2003-IN340	A 20031021

IT 82834-16-0P, Perindopril
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of crystalline perindopril erbumine)
RN 82834-16-0 HCAPLUS
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-(9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



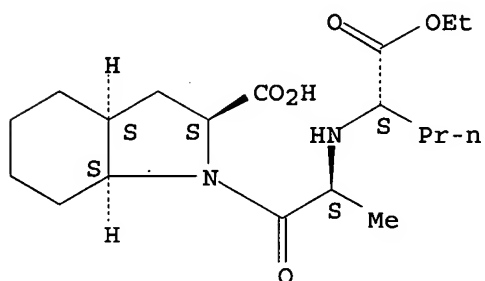
IT 107133-36-8P, Perindopril erbumine
 RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of crystalline perindopril erbumine)
 RN 107133-36-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

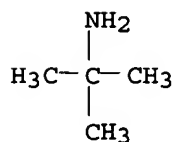
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

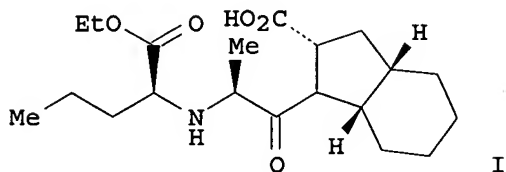
CMF C4 H11 N



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 10 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 04 Mar 2005

GI



AB Pure perindopril tert-butylamine salt is obtained by extracting an aqueous solution of perindopril (I), namely (2S,3aS,7aS)-1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylic acid, or its salt contaminated with impurities with a suitable organic solvent such as methylene dichloride at a pH of 4.0 to 6.5, separating the

organic layer, isolating I from the organic layer and converting it into tert-butylamine salt. Thus, perindopril tert-butylamine salt (15 g, purity 92.4%) was added to water (100 mL) and CH₂Cl₂ (100 mL) and the pH of the mass was adjusted to 5.4 by using 20% dilute HCl. The phases were separated and the aqueous layer was washed with CH₂Cl₂ (2 x 75 mL). The CH₂Cl₂ layer and washings are combined and the combined organic phase was washed with water (50 mL) and then with 10% aqueous NaCl (50 mL). The organic layer was dried over Na₂SO₄ and concentrated to give a residue, perindopril, (99.3 % purity). EtOAc (255 mL) was added to the residue (15 g) and stirred for 10 min to obtain a clear solution. Tert-Butylamine was added dropwise to the solution at 30° and stirred for 1 h at the same temperature. The reaction mass was then heated to reflux, passed over hiflo rapidly at reflux temperature and washed with hot EtOAc (30 mL). Then, the reaction mass was stirred for 2 h at .apprx.30°, cooled to 0°, and stirred for further 2 h at 0° to 5°. The separated solid was filtered, washed with EtOAc (15 mL), and dried to give 12 g of 99.77% pure perindopril tert-butylamine salt.

ACCESSION NUMBER: 2005:182626 HCAPLUS
 DOCUMENT NUMBER: 142:280052
 TITLE: Process for pure perindopril tert-butylamine salt
 INVENTOR(S): Parthasaradhi Reddy, Bandi; Rathnakar Reddy, Kura; Raji Reddy, Rapolu; Muralidhara Reddy, Dasari; Ramakrishna Reddy, Matta
 PATENT ASSIGNEE(S): Hetero Drugs Limited, India
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005019173	A1	20050303	WO 2003-IN276	20030821
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				

10/08/2006,10535187e.trn

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003263584

A1

20050310

AU 2003-263584

20030821

PRIORITY APPLN. INFO.:

WO 2003-IN276

A 20030821

IT 82834-16-0P, Perindopril

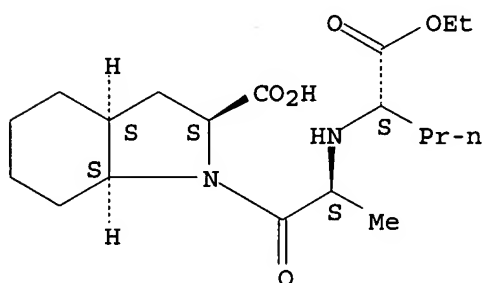
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(intermediate; process for pure perindopril tert-butylamine
salt)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-
(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 107133-36-8P, Perindopril tert-butylamine salt

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(process for pure perindopril tert-butylamine salt)

RN 107133-36-8 HCAPLUS

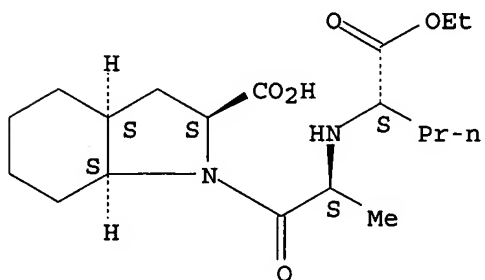
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-
(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

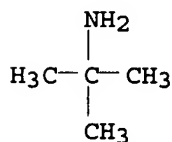
CMF C19 H32 N2 O5

Absolute stereochemistry.. Rotation (-).



CM 2

CRN 75-64-9
CMF C4 H11 N



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 11 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 19 Nov 2004

AB A process for the preparation of the ACE inhibitor perindopril involves activation of N-[1(S)-(ethoxycarbonyl)butyl]-(S)-alanine (1) with a tetramethyluronium salt in the presence of a tertiary organic base, coupling with (2S,3aS,7aS)-octahydroindole-2-carboxylic acid (2) or an ester, and deprotection. Thus, a mixture of 1, 2 benzyl ester, TBTU and diisopropylethylamine in DMF/CH₂Cl₂ was stirred for 4 h to afford benzyl-perindopril, which was converted to perindopril by phase transfer or classical hydrogenation.

ACCESSION NUMBER: 2004:996205 HCAPLUS

DOCUMENT NUMBER: 141:395815

TITLE: A process for the preparation of perindopril using tetramethyluronium salts as coupling reagents

INVENTOR(S): Rucman, Rudolf

PATENT ASSIGNEE(S): Lek Pharmaceuticals D.D., Slovenia

SOURCE: PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004099236	A1	20041118	WO 2004-SI20	20040507
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
SI 21506	C	20041231	SI 2003-118	20030508
EP 1628995	A1	20060301	EP 2004-731809	20040507
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
PRIORITY APPLN. INFO.:			SI 2003-118	A 20030508
			WO 2004-SI20	W 20040507
OTHER SOURCE(S):	CASREACT 141:395815; MARPAT 141:395815			
IT 82834-16-0P,	Perindopril			

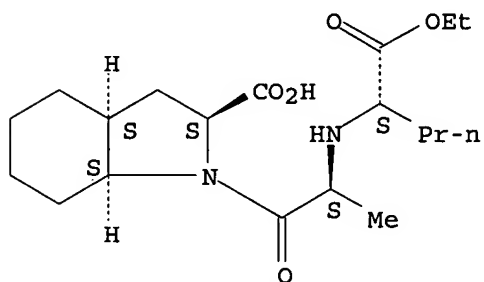
10/08/2006,10535187e.trn

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of perindopril using tetramethyluronium salts as coupling reagents)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 107133-36-8P, Perindopril erbumine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of perindopril using tetramethyluronium salts as coupling reagents)

RN 107133-36-8 HCAPLUS

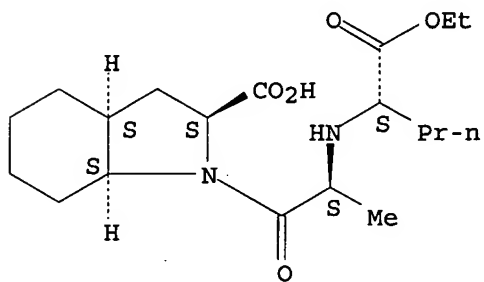
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

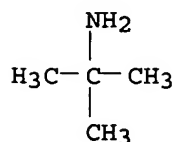
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 12 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 19 Nov 2004

AB A process for preparing perindopril or a pharmaceutically-acceptable salt comprises esterifying (2S,3aS,7aS)-octahydro-1H-indole-2-carboxylic acid (I) with benzyl alc. (or the 4-chloro or 4-alkoxy derivative) in the presence of benzenesulfonic acid as catalyst, treating the intermediate ester benzenesulfonate with N-[(S)-1-carbethoxybutyl]-L-alanine (II), and ester cleavage. Thus, I benzyl ester benzenesulfonate (40 g) was prepared, its suspension in CH₂Cl₂ made alkaline with aqueous ammonia,

and the organic layer separated Treatment with II at 10-15 °C in the presence of hydroxybenzotriazole and N,N'-dicyclohexylcarbodiimide and workup afforded 43 g perindopril benzyl ester.

ACCESSION NUMBER: 2004:996123 HCAPLUS

DOCUMENT NUMBER: 141:411226

TITLE: Process for preparation of perindopril and its salts

INVENTOR(S): Kankan, Rajendra Narayanrao; Rao, Dharmaraj Ramachandra

PATENT ASSIGNEE(S): Cipla Limited, India; Wain, Christopher Paul

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004099138	A2	20041118	WO 2004-GB2029	20040512
WO 2004099138	A3	20041223		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: IN 2003-MU468 A 20030512

OTHER SOURCE(S): CASREACT 141:411226; MARPAT 141:411226

IT 82834-16-OP, Perindopril 107133-36-8P, Perindopril erbumine

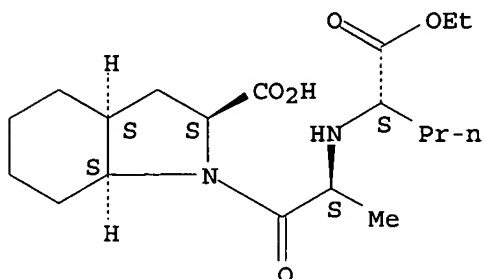
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of perindopril and its salts)

10/08/2006,10535187e.trn

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 107133-36-8 HCAPLUS

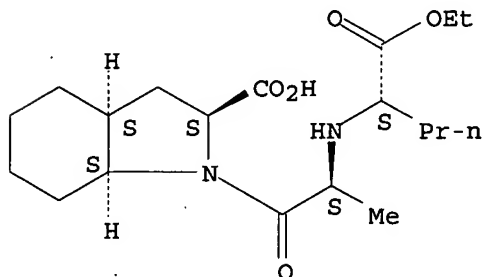
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

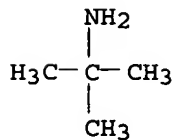
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



L14 ANSWER 13 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 10 Sep 2004

AB A process for the preparation of perindopril and its salts involves reaction of N-[1(S)-(ethoxycarbonyl)butyl]-L-alanyl chloride (I) or bromide with (2S)-indolinecarboxylic acid benzyl ester or its hexahydro derivative, followed by catalytic hydrogenation. Thus, perindopril benzyl ester was prepared by adding a slurry of 1.88 g I (preparation given) to a solution of 1.6 g (2S,3aS,7aS)-octahydroindole-2-carboxylic acid benzyl ester and triethylamine in CH₂Cl₂ at -10 to 15° over 25-30 min. Hydrogenation of the benzyl ester over 10% Pd-C afforded 1.3 g perindopril.

ACCESSION NUMBER: 2004:740158 HCAPLUS
 DOCUMENT NUMBER: 141:243833
 TITLE: Process for preparation of perindopril and its salts
 INVENTOR(S): Datta, Debashish; Singh, Girij Pal; Godbole, Himanshu Madhav; Siyan, Rajinder Singh
 PATENT ASSIGNEE(S): Lupin Limited, India
 SOURCE: PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004075889	A1	20040910	WO 2003-IN42	20030228
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2517205	AA	20040910	CA 2003-2517205	20030228
AU 2003224420	A1	20040917	AU 2003-224420	20030228
EP 1603558	A1	20051214	EP 2003-720846	20030228
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

PRIORITY APPLN. INFO.: WO 2003-IN42 W 20030228

OTHER SOURCE(S): CASREACT 141:243833; MARPAT 141:243833

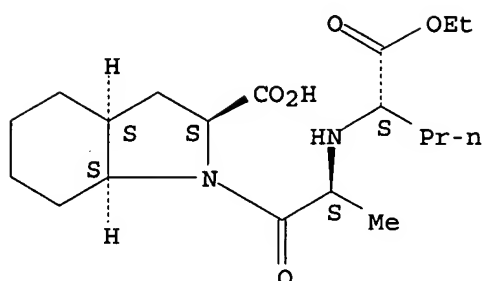
IT 82834-16-0P, Perindopril

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of perindopril and its salts)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[1(S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 14 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 27 May 2004

AB Perindopril was prepared by cyclization of (2S)-3-(2-bromophenyl)-2-[[[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]aminolpropanoyl]aminol]propanoic acid (I) or its esters in the presence of a Pd-based catalyst and a base [e.g., Pd₂(dba)₃, P(o-tolyl)₃, and Cs₂CO₃], followed by catalytic hydrogenation. Intermediate I was prepared by coupling of N-[(S)-1-carbethoxybutyl]-L-alanine N-carboxyanhydride with (S)-2-bromophenylalanine.

ACCESSION NUMBER: 2004:427629 HCAPLUS

DOCUMENT NUMBER: 140:407114

TITLE: Method for synthesis of perindopril and its pharmaceutically-acceptable salts

INVENTOR(S): Dubuffet, Thierry; Langlois, Pascal

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1422236	A1	20040526	EP 2003-292865	20031119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2005054277	A1	20050616	WO 2004-FR2937	20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-292865 A 20031119

OTHER SOURCE(S): MARPAT 140:407114

IT 82834-16-0P, Perindopril

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of perindopril and its pharmaceutically-acceptable

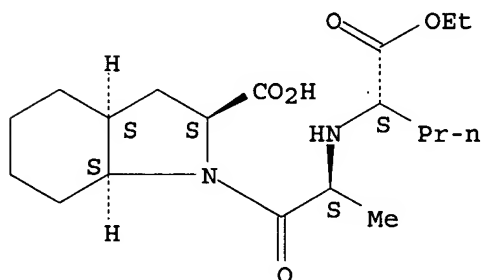
10/08/2006,10535187e.trn

salts)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 107133-36-8P, Perindopril erbumine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(synthesis of perindopril and its pharmaceutically-acceptable salts)

RN 107133-36-8 HCAPLUS

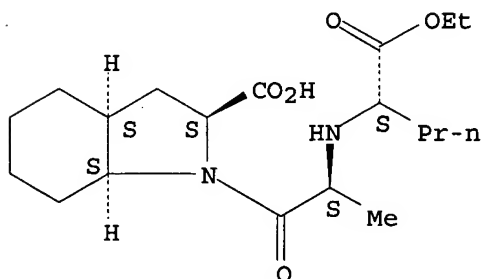
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

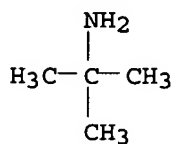
Absolute stereochemistry. Rotation (-).



CM 2

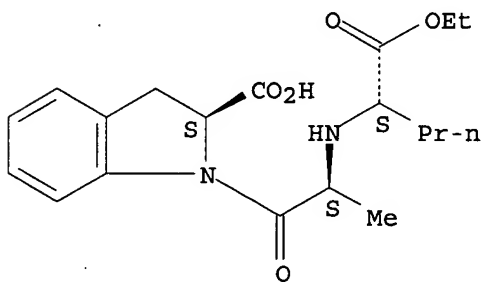
CRN 75-64-9

CMF C4 H11 N



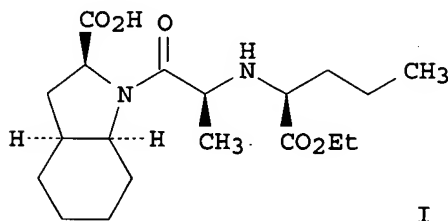
IT 685141-30-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis of perindopril and its pharmaceutically-acceptable
 salts)
 RN 685141-30-4 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(
 (ethoxycarbonyl)butyl]amino]-1-oxopropyl]-2,3-dihydro-, (2S)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

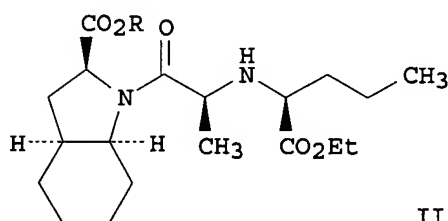


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 15 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 19 May 2004
 GI



I



II

AB Perindopril (I), or a pharmaceutically acceptable salt thereof,
 may be prepared from a protected ester II (R = aralkyl, CH2Ph) via
 hydrogenolysis in the presence of a noble metal catalyst, such as
 Pd/charcoal, in the presence of a base. For example, when the base is
 tert-butylamine, it forms a pharmaceutically-acceptable addition salt
 with I, thus forming perindopril erbumine, I·tert-butylamine
 salt. A monohydrate of I, or a pharmaceutically acceptable

salt thereof, is also claimed and may be prepared by hydrating I, or a pharmaceutically acceptable salt thereof, by way of addition of water or by drying in air. Perindopril erbumine monohydrate was prepared and studied by x-ray diffraction. Perindopril monohydrates may be used as angiotensin converting enzyme (ACE) inhibitors.

ACCESSION NUMBER: 2004:405692 HCAPLUS
DOCUMENT NUMBER: 140:407109
TITLE: Hydrogenolysis of benzyl ester of perindopril for preparing perindopril monohydrates for use as inhibitors of angiotensin converting enzyme (ACE)
INVENTOR(S): Rao, Dharmaraj Ramachandra; Kankan, Rajendra Narayanrao
PATENT ASSIGNEE(S): Cipla Limited, India
SOURCE: Brit. UK Pat. Appl., 16 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

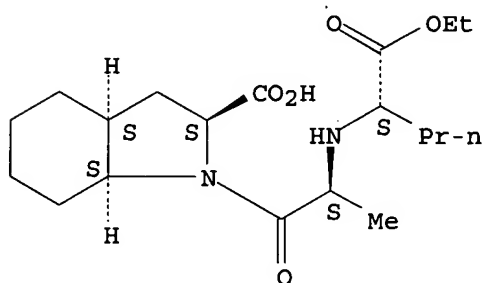
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2395195	A1	20040519	GB 2002-26885	20021118
CA 2506587	AA	20040603	CA 2003-2506587	20031118
WO 2004046172	A1	20040603	WO 2003-GB4981	20031118
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003283588	A1	20040615	AU 2003-283588	20031118
EP 1565485	A1	20050824	EP 2003-775565	20031118
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003015703	A	20051025	BR 2003-15703	20031118
CN 1738830	A	20060222	CN 2003-80108700	20031118
EP 1688427	A1	20060809	EP 2006-76083	20031118
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LV, FI, RO, CY, TR, BG, CZ, EE, HU, SK			
US 2006063941	A1	20060323	US 2005-535187	20051031
PRIORITY APPLN. INFO.:			GB 2002-26885	A 20021118
			EP 2003-775565	A3 20031118
			WO 2003-GB4981	W 20031118
OTHER SOURCE(S):	CASREACT 140:407109; MARPAT 140:407109			
IT 690267-97-1P,	Perindopril erbumine monohydrate			
RL:	IMF (Industrial manufacture); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
	(crystal structure; preparation of perindopril, its salts and monohydrates from hydrogenolysis of its benzyl ester)			
RN 690267-97-1	HCAPLUS			
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1), monohydrate (9CI) (CA INDEX NAME)				

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

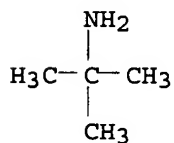
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



IT 82834-16-0P, Perindopril

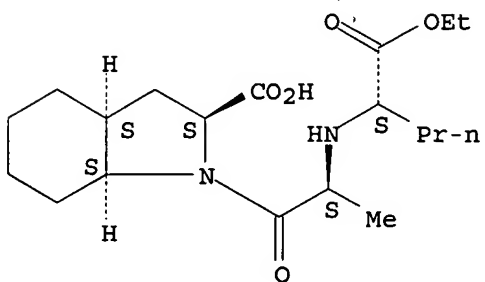
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of perindopril, its salts and monohydrates from hydrogenolysis of its benzyl ester)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 107133-36-8P, Perindopril erbumine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of perindopril, its salts and monohydrates from hydrogenolysis of its benzyl ester)

RN 107133-36-8 HCAPLUS

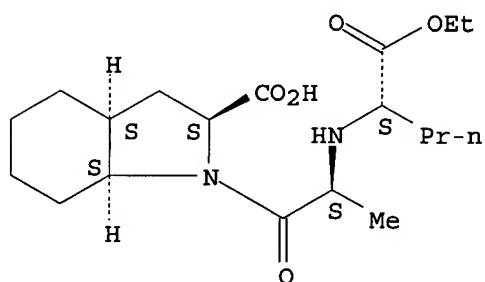
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

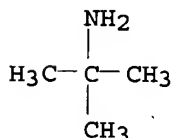
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 16 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 19 May 2004

AB A method for the synthesis of the title perindopril intermediate involves coupling of (2S)-indoline-2-carboxylic acid benzyl ester or (2S,3aS,7aS)-octahydroindole-2-carboxylic acid benzyl ester or their salts with N-protected L-alanine in the presence of a coupling agent [e.g., O-(benzotriazol-1-yl)-1,1,3,3-bis(tetramethylene)uronium hexafluorophosphate], followed by hydrogenation over Pd.

ACCESSION NUMBER: 2004:405664 HCAPLUS

DOCUMENT NUMBER: 140:375492

TITLE: Method for synthesis of (2S,3aS,7aS)-1-[(S)-alanyl]octahydro-1H-indole-2-carboxylic acid derivatives and use in the synthesis of perindopril

INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-Pierre

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1420030	A2	20040519	EP 2003-293085	20031210
EP 1420030	A3	20040526		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004312186	A1	20050721	AU 2004-312186	20041209
WO 2005066199	A1	20050721	WO 2004-FR3167	20041209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-293085 A 20031210
 WO 2004-FR3167 W 20041209

OTHER SOURCE(S): CASREACT 140:375492; MARPAT 140:375492

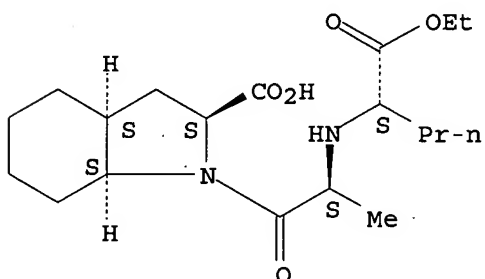
IT 82834-16-0P, Perindopril

RL: PNU (Preparation, unclassified); PREP (Preparation)
 (preparation of alanyloctahydroindolecarboxylic acid derivs. in synthesis of perindopril)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-(9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L14 ANSWER 17 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

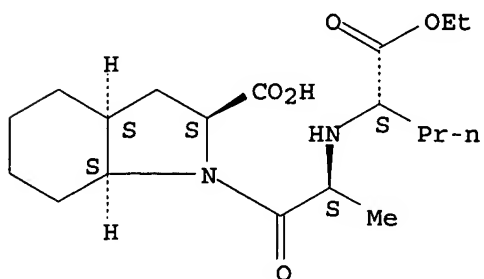
ED Entered STN: 19 May 2004

AB A method for the synthesis of perindopril involves coupling of (2S)-indoline-2-carboxylic acid benzyl ester or (2S,3aS,7aS)-octahydroindole-2-carboxylic acid benzyl ester with N-[(S)-1-carbethoxybutyl]-L-alanine in the presence of a coupling agent [e.g., O-(benzotriazol-1-yl)-1,1,3,3-bis(tetramethylene)uronium hexafluorophosphate], followed by hydrogenation over Pd. Perindopril was converted into its tert-butylamine salt.

ACCESSION NUMBER: 2004:405663 HCAPLUS
 DOCUMENT NUMBER: 140:375491
 TITLE: Method for the synthesis of perindopril and its pharmaceutically-acceptable salts
 INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-Pierre
 PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
 SOURCE: Eur. Pat. Appl., 6 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1420029	A2	20040519	EP 2003-293084	20031210
EP 1420029	A3	20040526		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004312185	A1	20050721	AU 2004-312185	20041209
WO 2005066198	A1	20050721	WO 2004-FR3166	20041209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			EP 2003-293084	A 20031210
			WO 2004-FR3166	W 20041209
OTHER SOURCE(S): CASREACT 140:375491				
IT 82834-16-0P, Perindopril				
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (synthesis of perindopril and its pharmaceutically-acceptable salts)				
RN 82834-16-0 HCAPLUS				
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-(9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



IT 107133-36-8P, Perindopril erbumine

10/08/2006,10535187e.trn

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)
(synthesis of perindopril and its pharmaceutically-acceptable
salts)

RN 107133-36-8 HCAPLUS

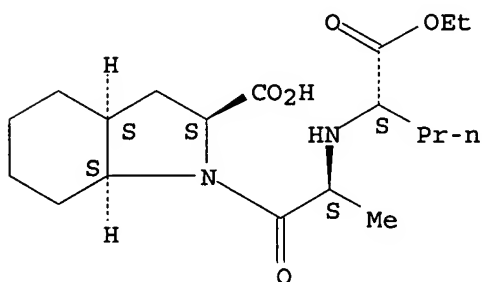
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

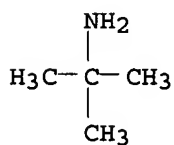
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

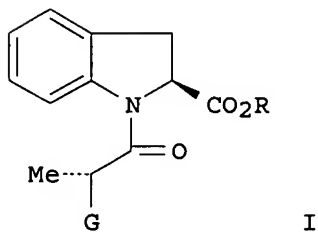
CMF C4 H11 N



L14 ANSWER 18 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 19 May 2004

GI



I

AB A method for the synthesis of perindopril involves reaction of

indolinecarboxylate derivs. I (R = H or a protective group, G = Cl, Br, OH, TsO, MeSO₃ or CF₃SO₃) with (S)-PrCH(NH₂)CO₂Et (II), followed by catalytic hydrogenation. II was prepared by reaction of (S)-2-BrC₆H₄CH₂CH(NH₂)CO₂R with (R)-MeCH(G)COCl and intamol. coupling, e.g., in the presence of Pd₂(dba)₃, P(o-tolyl)₃, and Cs₂CO₃. Perindopril was converted into its tert-butylamine salt.

ACCESSION NUMBER: 2004:405662 HCAPLUS
DOCUMENT NUMBER: 140:375490
TITLE: Method for the synthesis of perindopril and its pharmaceutically-acceptable salts
INVENTOR(S): Dubuffet, Thierry; Langlois, Pascal
PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1420028	A2	20040519	EP 2003-292864	20031119
EP 1420028	A3	20040526		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004295132	A1	20050616	AU 2004-295132	20041118
CA 2546506	AA	20050616	CA 2004-2546506	20041118
WO 2005054276	A1	20050616	WO 2004-FR2936	20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-292864 A 20031119
WO 2004-FR2936 W 20041118

OTHER SOURCE(S): CASREACT 140:375490; MARPAT 140:375490

IT 82834-16-0P, Perindopril 107133-36-8P

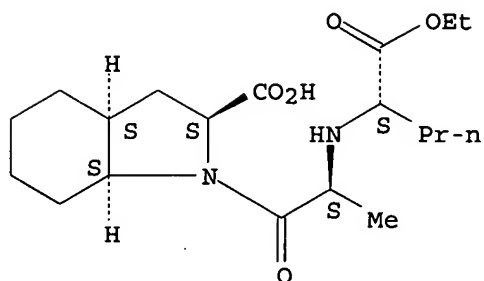
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis of perindopril and its pharmaceutically-acceptable salts)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 107133-36-8 HCAPLUS

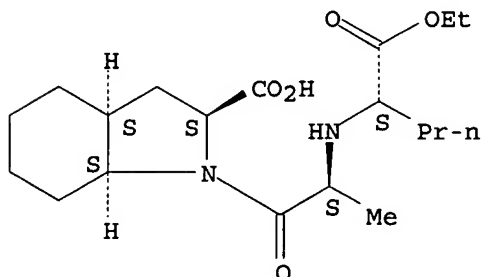
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

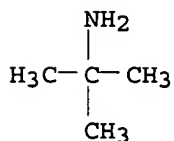
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



L14 ANSWER 19 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

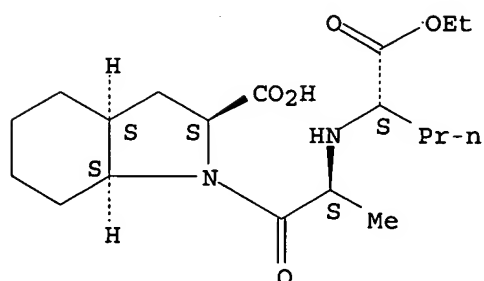
ED Entered STN: 01 Apr 2004

AB A method for the synthesis of perindopril involves coupling of (2S)-2,3,4,5,6,7-hexahydro-1H-indolecarboxylic acid (I) or an ester with N-[(S)-1-carbethoxybutyl]-L-alanine, followed by catalytic hydrogenation. I benzyl ester tosylate was prepared by reaction of 1-(1-cyclohexen-1-yl)pyrrolidine with (R)-ICH₂CH(NBoc)CO₂CH₂Ph (Boc = tert-butoxycarbonyl), followed by deprotection and cyclization. Perindopril was converted into

its tert-butylamine salt.
 ACCESSION NUMBER: 2004:266897 HCAPLUS
 DOCUMENT NUMBER: 140:253917
 TITLE: Process for the synthesis of perindopril and its
 pharmaceutically-acceptable salts
 INVENTOR(S): Dubuffet, Thierry; Langlois, Pascal
 PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
 SOURCE: Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1403275	A1	20040331	EP 2003-290485	20030228
EP 1403275	B1	20051019		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 307139	E	20051115	AT 2003-290485	20030228
ES 2250846	T3	20060416	ES 2003-3290485	20030228
AU 2004217599	A1	20040916	AU 2004-217599	20040227
WO 2004078107	A2	20040916	WO 2004-FR446	20040227
WO 2004078107	A3	20041021		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1753906	A	20060329	CN 2004-80005405	20040227
US 2006149081	A1	20060706	US 2005-547131	20050824
PRIORITY APPLN. INFO.:			EP 2003-290485	A 20030228
			WO 2004-FR446	A 20040227
OTHER SOURCE(S):		MARPAT 140:253917		
IT 82834-16-0P, Perindopril 107133-36-8P				
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (synthesis of perindopril and pharmaceutically-acceptable salts)				
RN 82834-16-0 HCAPLUS				
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



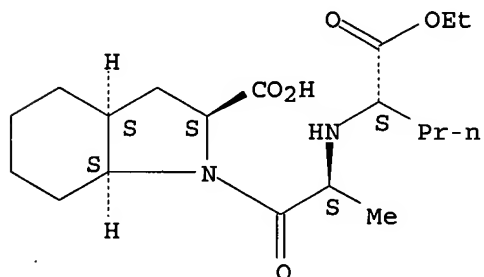
RN 107133-36-8 HCAPLUS
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

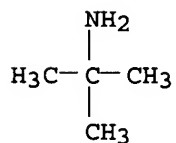
Absolute stereochemistry. Rotation (-).



CM 2

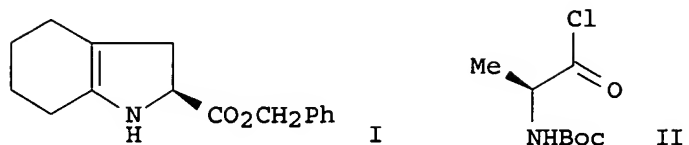
CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 20 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 16 Jan 2004
GI



AB A method for the synthesis of perindopril and its tert-Bu amine salt is described. The steps are: coupling of hexahydroindolecarboxylate I with propionyl chloride II in CH₂Cl₂, followed by Boc deprotection with TFA and reaction with Et 2-oxopentanoate and hydrogenation over Pd/C. Addition of tert-butylamine to perindopril provides the salt.

ACCESSION NUMBER: 2004:36709 HCAPLUS
 DOCUMENT NUMBER: 140:59939
 TITLE: Method for synthesis of perindopril and its pharmaceutically acceptable salts
 INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-Pierre
 PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.; Servier Lab
 SOURCE: Eur. Pat. Appl., 7 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1380591	A1	20040114	EP 2003-292132	20030829
EP 1380591	B1	20051116		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 310012	E	20051215	AT 2003-292132	20030829
ES 2252633	T3	20060516	ES 2003-3292132	20030829
AU 2004270428	A1	20050317	AU 2004-270428	20040827
WO 2005023842	A1	20050317	WO 2004-FR2197	20040827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-292132 A 20030829
 WO 2004-FR2197 W 20040827

OTHER SOURCE(S): CASREACT 140:59939; MARPAT 140:59939

IT 82834-16-0P, Perindopril 107133-36-8P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of perindopril and tert-butylamine salt)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-(9CI)

acceptable salts involves coupling of (2S)-2,3,4,5,6,7-hexahydro-1H-indolecarboxylic acid or its benzyl ester with R²-L-Ala-X (R² is a protective group, X is halo), followed by deprotection, reaction with (R)-PrCH(G)CO₂Et (G is Cl, Br, I, or tosyloxy), and catalytic hydrogenation. Addition of tert-butylamine to perindopril provides the salt.

ACCESSION NUMBER: 2004:36708 HCAPLUS
DOCUMENT NUMBER: 140:59938
TITLE: Method for synthesis of perindopril and its pharmaceutically acceptable salts
INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-Pierre
PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1380590	A1	20040114	EP 2003-292131	20030829
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004270427	A1	20050317	AU 2004-270427	20040827
WO 2005023841	A1	20050317	WO 2004-FR2196	20040827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-292131 A 20030829
WO 2004-FR2196 W 20040827

OTHER SOURCE(S): CASREACT 140:59938; MARPAT 140:59938

IT 82834-16-0P, Perindopril 107133-36-8P

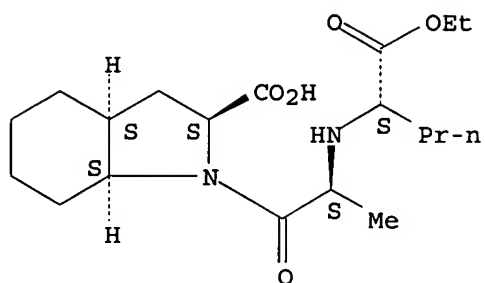
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of perindopril and tert-butylamine salt)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



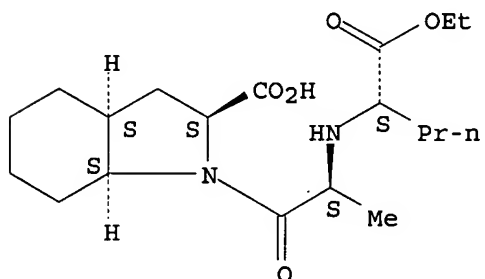
RN 107133-36-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

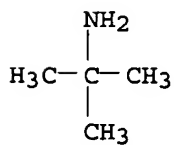
Absolute stereochemistry. Rotation (-).



CM 2

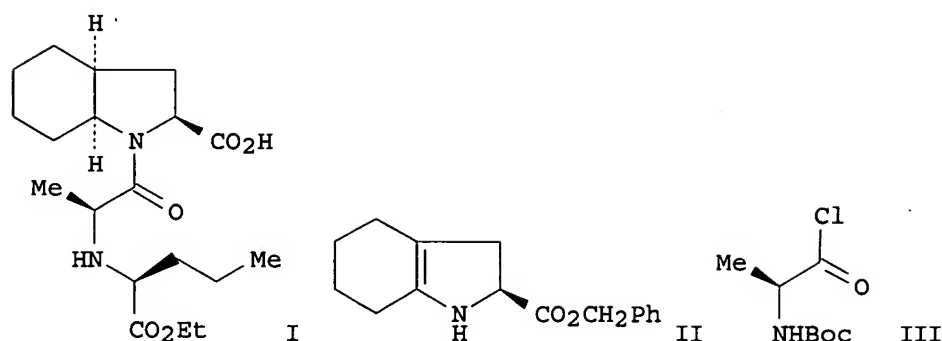
CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 22 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 18 Dec 2003
 GI



AB A method for the synthesis of perindopril (I) and its tert-Bu amine salt is described. The steps are: coupling of (hexahydro)indolecarboxylate II with propionyl chloride III in CH₂Cl₂, followed by Boc deprotection with TFA, reaction with Et 2-oxopentanoate under reductive conditions, and removal of benzyl ester by hydrogenation to give I. Addition of tert-Bu amine to I provides the salt.

ACCESSION NUMBER: 2003:985781 HCAPLUS
 DOCUMENT NUMBER: 140:28049
 TITLE: Method for synthesis of perindopril and its pharmaceutically acceptable salts [2003/26]
 INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-Pierre
 PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
 SOURCE: Eur. Pat. Appl., 8 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1371659	A1	20031217	EP 2003-292133	20030829
EP 1371659	B1	20051012		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 306496	E	20051015	AT 2003-292133	20030829
ES 2250853	T3	20060416	ES 2003-3292133	20030829
AU 2004270429	A1	20050317	AU 2004-270429	20040827
WO 2005023843	A1	20050317	WO 2004-FR2198	20040827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-292133 A 20030829
 WO 2004-FR2198 W 20040827
 OTHER SOURCE(S): CASREACT 140:28049; MARPAT 140:28049
 IT 82834-16-0P

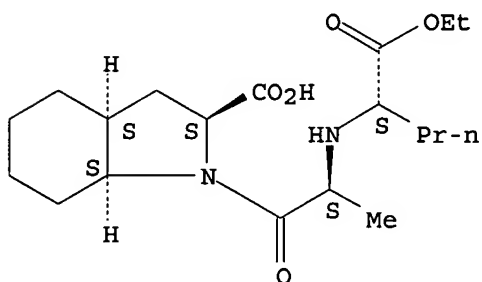
10/08/2006,10535187e.trn

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of perindopril and its tert-Bu amine salt)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 107133-36-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of perindopril and its tert-Bu amine salt)

RN 107133-36-8 HCAPLUS

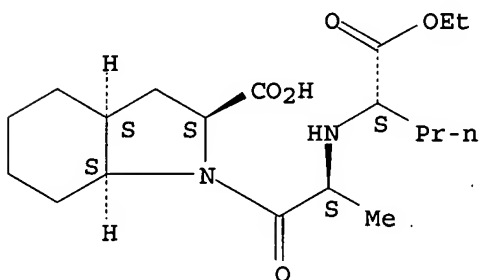
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

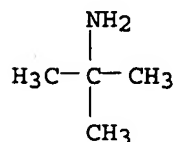
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 23 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 05 Dec 2003

AB A method for the synthesis of perindopril and its pharmaceutically-acceptable salts (e.g., the tert-butylamine) involves cyclocondensation reaction of N-[(S)-1-carbethoxybutyl]-(S)-alanine with sulfinyl chlorides R1SOCl (R1 = imidazolyl, benimidazolyl, or tetrazolyl) to give Et (2S)-2-[(4S)-4-methyl-2,5-dioxo-1,2,3-oxathiazolidin-3-yl]pentanoate, which is amidated with (2S)-2,3,4,5,6,7-hexahydro-1H-indole-2-carboxylic acid and hydrogenated over 10% Pt/C to give perindopril.

ACCESSION NUMBER: 2003:947713 HCAPLUS

DOCUMENT NUMBER: 139:381760

TITLE: Method for synthesis of perindopril and its pharmaceutically acceptable salts

INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-Pierre

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1367061	A1	20031203	EP 2003-291601	20030630
EP 1367061	B1	20060104		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 315043	E	20060215	AT 2003-291601	20030630
ES 2256689	T3	20060716	ES 2003-3291601	20030630
AU 2004253721	A1	20050113	AU 2004-253721	20040628
WO 2005003153	A1	20050113	WO 2004-FR1637	20040628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1802384	A	20060712	CN 2004-80016014	20040628
PRIORITY APPLN. INFO.:			EP 2003-291601	A 20030630
			WO 2004-FR1637	W 20040628

OTHER SOURCE(S): CASREACT 139:381760; MARPAT 139:381760

IT 82834-16-0P, Perindopril 107133-36-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

10/08/2006,10535187e.trn

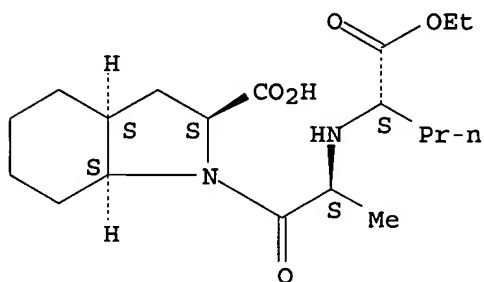
(Preparation)

(synthesis of perindopril via cyclocondensation of
carbethoxybutylalanine with imidazolesulfinyl chloride)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 107133-36-8 HCAPLUS

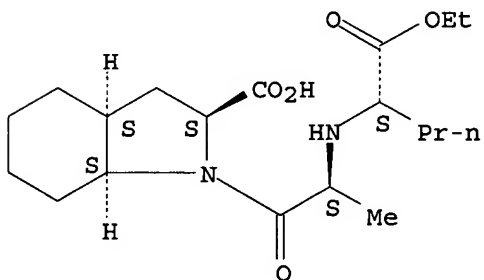
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

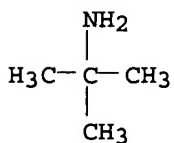
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 24 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 20 Nov 2003

AB Perindopril and its pharmaceutically acceptable salts (e.g., tert-butylamine salt) are prepared by the cyclocondensation reaction of N-[(S)-carboethoxy-1-butyl]-(S)-alanine with a carbonyl compound X1COX2 (X1, X2 = leaving group; e.g., 1,1'-carbonyldiimidazole) to give Et (2S)-2-[(4S)-4-Methyl-2,5-dioxo-1,3-oxazolidin-3-yl]pentanoate which is amidated with (2S)-2,3,4,5,6,7-hexahydro-1H-indole-2-carboxylic acid in the presence of an acid (e.g., hydrochloric acid) to give (2S)-1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butylamino]propionyl]-2,3,4,5,6,7-hexahydro-1H-indole-2-carboxylic acid which is hydrogenated with a 10% Pt/C catalyst to give perindopril which is then salified with tert-butylamine to give perindopril tert-butylammonium salt.

ACCESSION NUMBER: 2003:909172 HCAPLUS

DOCUMENT NUMBER: 139:396166

TITLE: Method for synthesis of perindopril and its pharmaceutically acceptable salts

INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-Pierre

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1362864	A1	20031119	EP 2003-291600	20030630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004255899	A1	20050120	AU 2004-255899	20040628
WO 2005005461	A2	20050120	WO 2004-FR1638	20040628
WO 2005005461	A3	20050331		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1805972	A	20060719	CN 2004-80016324	20040628
US 2006148884	A1	20060706	US 2005-562950	20051223
PRIORITY APPLN. INFO.:			EP 2003-291600	A 20030630
			WO 2004-FR1638	W 20040628

OTHER SOURCE(S): CASREACT 139:396166; MARPAT 139:396166

IT 82834-16-0P, Perindopril

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(method for synthesis of perindopril and its pharmaceutically acceptable salts)

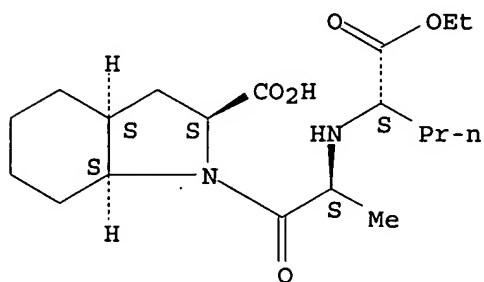
RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-

10/08/2006,10535187e.trn

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 107133-36-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(method for synthesis of perindopril and its pharmaceutically
acceptable salts)

RN 107133-36-8 HCAPLUS

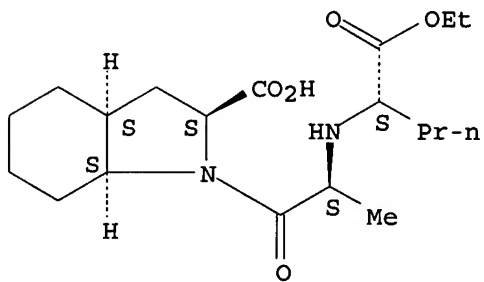
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-
(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

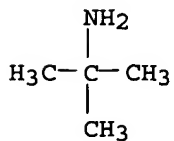
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 25 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 23 Oct 2003

AB The L-arginine salt of perindopril, which has increased storage stability over the corresponding tert-butylamine salt, is prepared, and its use for the treatment of hypertension and cardiac insufficiency claimed.

ACCESSION NUMBER: 2003:832150 HCAPLUS

DOCUMENT NUMBER: 139:307680

TITLE: Preparation of the L-arginine salt of perindopril and its use as an ACE inhibitor

INVENTOR(S): Damien, Gerard; Lefoulon, Francois; Marchand, Bernard

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

SOURCE: Eur. Pat. Appl., 5 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

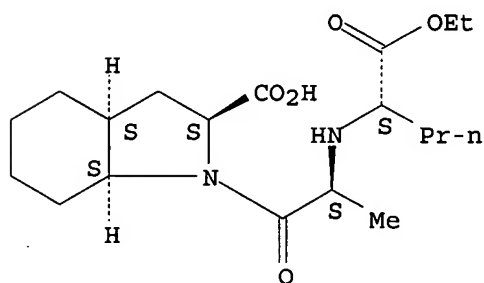
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1354873	A1	20031022	EP 2003-290383	20030217
EP 1354873	B1	20040714		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2838648	A1	20031024	FR 2002-4847	20020418
FR 2838648	B1	20040521		
WO 2003087050	A2	20031023	WO 2003-FR507	20030217
WO 2003087050	A3	20040325		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003222921	A1	20031027	AU 2003-222921	20030217
AT 271036	E	20040715	AT 2003-290383	20030217
PT 1354873	T	20041029	PT 2003-290383	20030217
ES 2224092	T3	20050301	ES 2003-3290383	20030217
ZA 2003001395	A	20030902	ZA 2003-1395	20030220
US 2003199568	A1	20031023	US 2003-371865	20030221
US 6696481	B2	20040224		
NO 2003000849	A	20031020	NO 2003-849	20030224
AU 2003200700	A1	20031106	AU 2003-200700	20030227
NZ 524478	A	20040528	NZ 2003-524478	20030228
CN 1451656	A	20031029	CN 2003-107148	20030307
BR 2003000709	A	20040908	BR 2003-709	20030321
JP 2003321493	A2	20031111	JP 2003-83250	20030325
JP 3737488	B2	20060118		
CA 2423825	AA	20031018	CA 2003-2423825	20030403
CA 2423825	C	20060221		
HK 1057367	A1	20051014	HK 2004-100189	20040110
PRIORITY APPLN. INFO.:			FR 2002-4847	A 20020418
			WO 2003-FR507	W 20030217

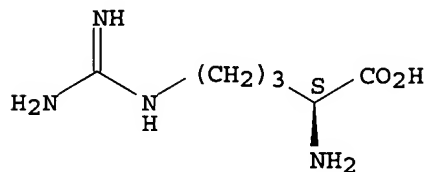
IT 612548-45-5P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of the L-arginine salt of perindopril and its use as an ACE inhibitor)
 RN 612548-45-5 HCAPLUS
 CN L-Arginine, mono[(2S,3aS,7aS)-1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylate] (9CI) (CA INDEX NAME)
 CM 1
 CRN 82834-16-0
 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2
 CRN 74-79-3
 CMF C6 H14 N4 O2

Absolute stereochemistry.



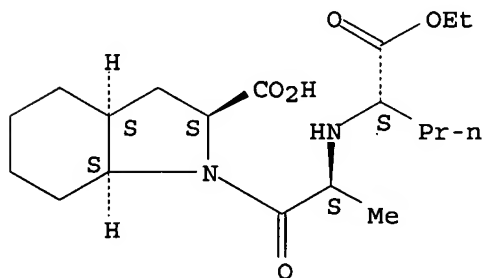
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 26 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 02 Oct 2003
 AB (2S)-indoline-2-carboxylic acid, an intermediate used in the synthesis of perindopril, was prepared by resolution of racemic indoline-2-carboxylic acid by reaction with (R)- α -methylbenzylamine. In an example, (2S)-indoline-2-carboxylic acid was obtained with enantiomeric purity > 99.5 %.
 ACCESSION NUMBER: 2003:771360 HCAPLUS
 DOCUMENT NUMBER: 139:277168
 TITLE: Method for the synthesis of (2S)-indoline-2-carboxylic acid for use in the synthesis of perindopril
 INVENTOR(S): Souvie, Jean-Claude; Lecouve, Jean-Pierre

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
 SOURCE: Eur. Pat. Appl., 6 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1348684	A1	20031001	EP 2003-290879	20030409
EP 1348684	B1	20060308		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 319668	E	20060315	AT 2003-290879	20030409
AU 2004230294	A1	20041028	AU 2004-230294	20040407
CA 2521877	AA	20041028	CA 2004-2521877	20040407
WO 2004092095	A1	20041028	WO 2004-FR857	20040407
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
BR 2004009095	A	20060411	BR 2004-9095	20040407
CN 1768019	A	20060503	CN 2004-80009239	20040407
NO 2005005257	A	20051109	NO 2005-5257	20051109
PRIORITY APPLN. INFO.:			EP 2003-290879	A 20030409
			WO 2004-FR857	W 20040407
IT 82834-16-0P, Perindopril				
RL: PNU (Preparation, unclassified); PREP (Preparation) (synthesis of (2S)-indoline-2-carboxylic acid via resolution as intermediate in synthesis of perindopril)				
RN 82834-16-0 HCAPLUS				
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 27 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 08 Aug 2003

AB The invention relates to 1-[2(S)-[1(S)-(ethoxycarbonyl)butylamino]propionyl]- (3aS,7aS)octahydroindole-2(S)-carboxylic acid (perindopril) and its tert-butylamine salt, free of contaminants derivable from dicyclohexylcarbodiimide, and a process for their synthesis. The invention also relates to N-[1-(ethoxycarbonyl)butyl]-N-(alkoxycarbonyl)alanine intermediates used in the synthesis of perindopril, a known ACE inhibitor. Thus, N-[1-(ethoxycarbonyl)butyl]-N-(ethoxycarbonyl)alanine, prepared by ethoxycarbonylation of N-[1-(ethoxycarbonyl)butyl]alanine, was treated with thionyl chloride in CH₂Cl₂ and acylated by perhydroindole-2-carboxylic acid in THF at reflux for 4-4.5 h. The product was treated with tert-butylamine to afford 55% perindopril ebumine.

ACCESSION NUMBER: 2003:609507 HCAPLUS

DOCUMENT NUMBER: 139:149930

TITLE: Process for the preparation of high purity perindopril and intermediates useful in its synthesis

INVENTOR(S): Simig, Gyula; Mezei, Tibor; Porcs-Makkay, Marta; Mandi, Attila

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1333026	A1	20030806	EP 2002-290206	20020130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CA 2474003	AA	20030807	CA 2003-2474003	20030129
WO 2003064388	A2	20030807	WO 2003-IB691	20030129
WO 2003064388	A3	20040205		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EE 200400107	A	20041015	EE 2004-107	20030129
BR 2003007293	A	20041221	BR 2003-7293	20030129
CN 1622936	A	20050601	CN 2003-802714	20030129
US 2005119492	A1	20050602	US 2003-503272	20030129
JP 2005521667	T2	20050721	JP 2003-564011	20030129
NO 2004003472	A	20040820	NO 2004-3472	20040820
BG 108858	A	20050531	BG 2004-108858	20040827
PRIORITY APPLN. INFO.:			EP 2002-290206	A 20020130
			WO 2003-IB691	W 20030129

OTHER SOURCE(S): MARPAT 139:149930

IT 82834-16-0P, Perindopril 107133-36-8P, Perindopril ebumine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

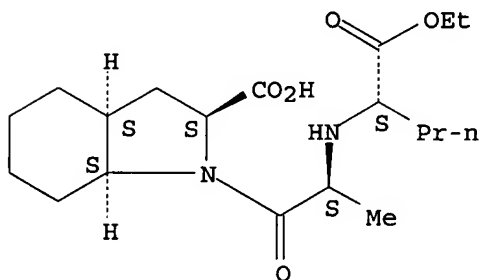
10/08/2006,10535187e.trn

(process for preparation of high purity perindopril and intermediates useful in its synthesis)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 107133-36-8 HCAPLUS

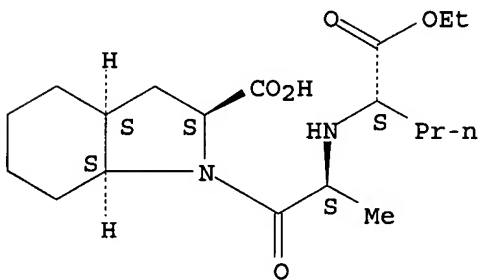
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

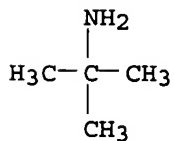
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 28 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 27 Jun 2003

AB Perindopril and its pharmaceutically-acceptable salts were prepared from 2,7-oxepanedione by a multistep procedure, i.e., reaction with (R)-XCH₂CH(NHBoc)CO₂CH₂Ph (X is Br or iodo; Boc is tert-butoxycarbonyl), cyclization of deprotected 2-amino-4-oxononanedioic acid derivative, Ti-catalyzed coupling to form the indole ring system, reaction with N-[(S)-1-carbethoxybutyl]-(S)-alanine, and catalytic hydrogenation. In an example, perindopril was obtained with enantiomeric purity 99%.

ACCESSION NUMBER: 2003:488613 HCAPLUS

DOCUMENT NUMBER: 139:22503

TITLE: Method for the synthesis of perindopril and its pharmaceutically-acceptable salts

INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-pierre

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

SOURCE: Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1321471	A1	20030625	EP 2003-290605	20030312
EP 1321471	B1	20050504		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 294814	E	20050515	AT 2003-290605	20030312
PT 1321471	T	20050729	PT 2003-290605	20030312
ES 2240919	T3	20051016	ES 2003-3290605	20030312
WO 2004083238	A1	20040930	WO 2004-FR594	20040312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-290605 A 20030312

OTHER SOURCE(S): CASREACT 139:22503; MARPAT 139:22503

IT 82834-16-0P, Perindopril 107133-36-8P

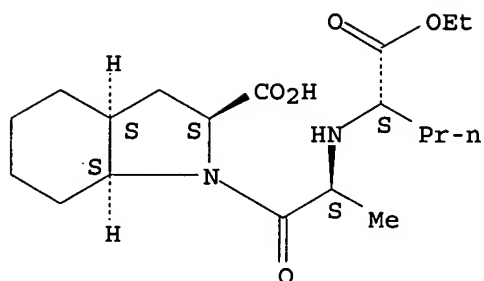
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(method for synthesis of perindopril and its pharmaceutically-acceptable salts)

RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

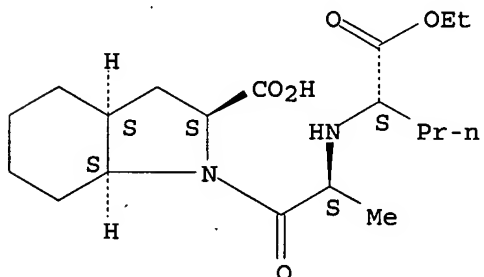


RN 107133-36-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butylamino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

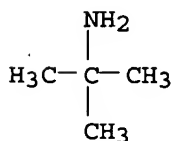
CRN 82834-16-0
 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9
 CMF C4 H11 N



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 29 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 31 Jan 2003
 AB Perindopril [(2S,3aS,7aS)-1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butylamino]propionyl]octahydro-1H-indole-2-carboxylic acid] or its analogs or salts were prepared by treating R_cCH(CO₂R_a)NHCHR_bCO₂H (R_a, R_b = C₁-4 alkyl, R_c = C₁-6alkyl) with X₂C:O (X is a leaving group) to give a

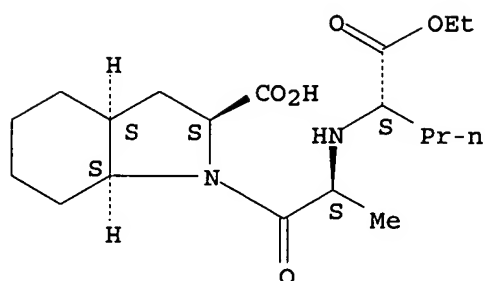
2,5-dioxooxazolidine, which reacts with octahydro-1H-indole-2-carboxylic acid or ester to give the desired product. In an example, N,N'-carbonyldiimidazole was added to a suspension of N-[(S)-1-carbethoxybutyl]-(S)-alanine in CH₂Cl₂ and the mixture kept at 0° for 1 h. (2S,3aS,7aS)-octahydroindole-2-carboxylic acid was added at -5°C and the solution kept at this temperature for 1 h to give 80% perindopril (isolated as the tert-butylamine salt).

ACCESSION NUMBER: 2003:77804 HCAPLUS
DOCUMENT NUMBER: 138:107004
TITLE: A process for the preparation of perindopril, its analogs and salts using 2,5-dioxooxazolidine intermediate compounds
INVENTOR(S): Cid, Pau
PATENT ASSIGNEE(S): Adir, Fr.
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1279665	A2	20030129	EP 2002-16262	20020723
EP 1279665	A3	20030312		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2003010142	A2	20030206	WO 2002-EP8223	20020723
WO 2003010142	A3	20030828		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
BR 2002011422	A	20040817	BR 2002-11422	20020723
CN 1529694	A	20040915	CN 2002-814322	20020723
JP 2005501829	T2	20050120	JP 2003-515501	20020723
ZA 2004000323	A	20050117	ZA 2004-323	20040115
US 2004248814	A1	20041209	US 2004-484672	20040712
PRIORITY APPLN. INFO.:			EP 2001-500197	A 20010724
			WO 2002-EP8223	W 20020723

OTHER SOURCE(S): MARPAT 138:107004
IT 82834-16-0P, Perindopril 107133-36-8P, Perindopril erbumine
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(process for preparation of perindopril using dioxooxazolidine intermediate)
RN 82834-16-0 HCAPLUS
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

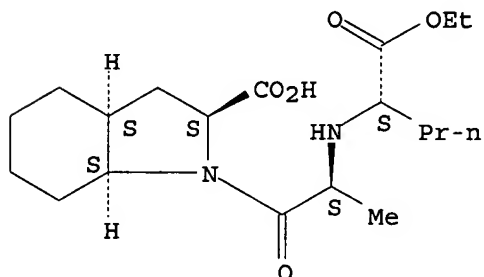


RN 107133-36-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

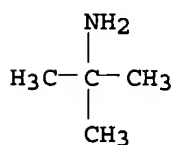
CRN 82834-16-0
 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9
 CMF C4 H11 N



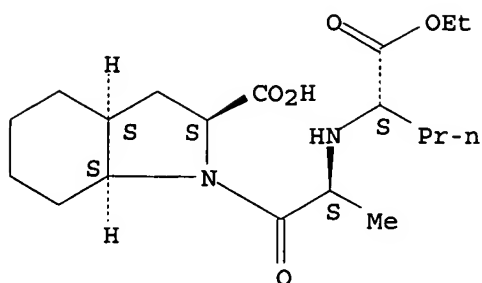
L14 ANSWER 30 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 17 Aug 2001
 AB Perindopril [(2S,3aS,7aS)-1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]propionyl]octahydro-1H-indole-2-carboxylic acid] was prepared by coupling (2S,3aS,7aS)octahydroindole-2-carboxylic acid tosylate with N-[(S)-1-carbethoxybutyl]-(S)-alanine, followed by catalytic hydrogenation to remove the benzyl group. In an example, the coupling reaction was carried out in Et acetate in the presence of Et3N, 1-hydroxybenzotriazole

and dicyclohexylcarbodiimide at 30° for 3h to give 92% perindopril benzyl ester.

ACCESSION NUMBER: 2001:597957 HCAPLUS
DOCUMENT NUMBER: 135:167034
TITLE: Method for synthesis of perindopril and its pharmaceutically acceptable salts
INVENTOR(S): Langlois, Pascal; Turbe, Hugues
PATENT ASSIGNEE(S): Adir et Compagnie, Fr.
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

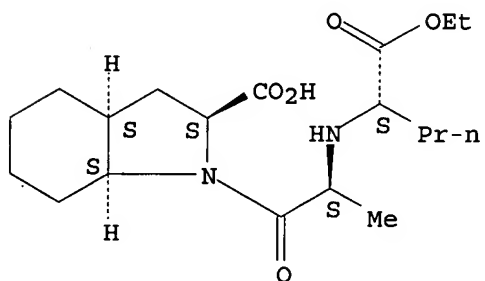
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001058868	A1	20010816	WO 2001-FR1026	20010405
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2807431	A1	20011012	FR 2000-4379	20000406
FR 2807431	B1	20020719		
CA 2405486	AA	20010816	CA 2001-2405486	20010405
AU 2001048470	A5	20010820	AU 2001-48470	20010405
EP 1268424	A1	20030102	EP 2001-921486	20010405
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009836	A	20030624	BR 2001-9836	20010405
JP 2003531825	T2	20031028	JP 2001-558419	20010405
NZ 521454	A	20040326	NZ 2001-521454	20010405
EE 200200575	A	20040415	EE 2002-575	20010405
ZA 2002007419	A	20030916	ZA 2002-7419	20020916
US 2003069431	A1	20030410	US 2002-239129	20020919
US 6835843	B2	20041228		
NO 2002004808	A	20021004	NO 2002-4808	20021004
BG 107249	A	20030731	BG 2002-107249	20021104
PRIORITY APPLN. INFO.:			FR 2000-4379	A 20000406
			WO 2001-FR1026	W 20010405
OTHER SOURCE(S): CASREACT 135:167034				
IT 82834-16-0P, Perindopril				
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (method for synthesis of perindopril)				
RN 82834-16-0 HCAPLUS				
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-(9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).

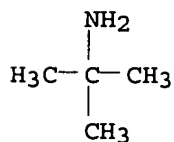


IT 107133-36-8P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
 (Preparation)
 (method for synthesis of perindopril)
 RN 107133-36-8 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
 with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 82834-16-0
 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



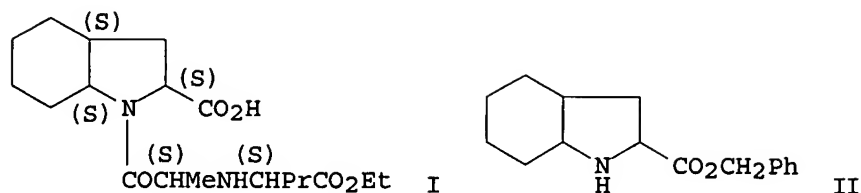
CM 2
 CRN 75-64-9
 CMF C4 H11 N



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 31 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 01 Oct 1989

GI



AB Preparation of perindopril via acylation of perhydroindolecarboxylate with N-[(ethoxycarbonyl)butyl]alanine. The title compound (I), useful as an antihypertensive (no data), is prepared, e.g., via N-acylation of perhydroindole derivative II (preparation given) with (S,S)-HO₂CCHMeNHCHPrCO₂Et (III). II.p-MeC₆H₄SO₃H (preparation given) was condensed with III in EtOAc containing Et₃N, 1-hydroxybenzotriazole, and dicyclohexylcarbodiimide to give, after deprotection and treatment with Me₃CNH₂, I.Me₃CNH₂.

ACCESSION NUMBER: 1989:515749 HCAPLUS

DOCUMENT NUMBER: 111:115749

TITLE: Preparation of perindopril via acylation of perhydroindolecarboxylate with N-[(ethoxycarbonyl)butyl]alanine

INVENTOR(S): Vincent, Michel; Baliarda, Jean; Marchand, Bernard; Remond, Georges

PATENT ASSIGNEE(S): ADIR, Fr.

SOURCE: Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 308341	A1	19890322	EP 1988-402339	19880916
EP 308341	B1	19901212		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FR 2620709	A1	19890324	FR 1987-12896	19870917
FR 2620709	B1	19900907		
CA 1336348	A1	19950718	CA 1988-577078	19880907
DK 8805151	A	19890318	DK 1988-5151	19880915
DK 171470	B1	19961111		
AU 8822362	A1	19890323	AU 1988-22362	19880916
AU 608363	B2	19910328		
JP 01110696	A2	19890427	JP 1988-232125	19880916
JP 05043717	B4	19930702		
ZA 8806932	A	19890530	ZA 1988-6932	19880916
US 4914214	A	19900403	US 1988-245446	19880916
AT 59047	E	19901215	AT 1988-402339	19880916
CA 1338015	A1	19960130	CA 1991-616239	19911128
PRIORITY APPLN. INFO.:			FR 1987-12896	A 19870917
			CA 1988-577078	A3 19880907
			EP 1988-402339	A 19880916

OTHER SOURCE(S): MARPAT 111:115749

IT 107133-36-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, via acylation of perhydroindole derivative with

10/08/2006,10535187e.trn

N-[(ethoxycarbonyl)butyl]alanine)

RN 107133-36-8 HCAPLUS

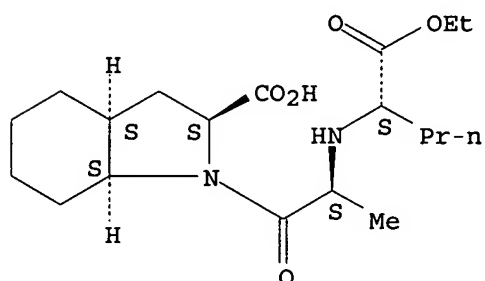
CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

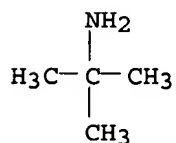
Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9

CMF C4 H11 N



IT 82834-16-0P, Perindopril

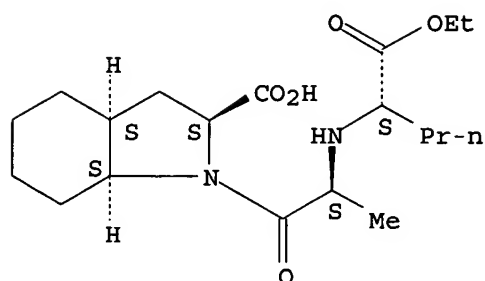
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, via acylation of perhydroindolecarboxylate with N-[(ethoxycarbonyl)butyl]alanine)

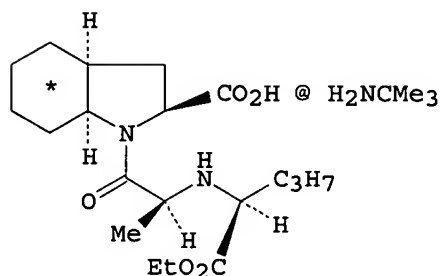
RN 82834-16-0 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)- (9CI) (CA INDEX NAME)

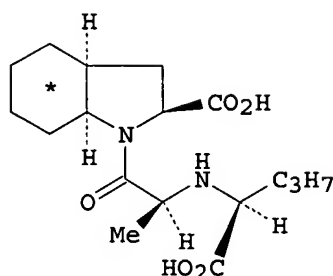
Absolute stereochemistry. Rotation (-).



L14 ANSWER 32 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 24 Dec 1988
GI



I



II

AB The title ^{14}C -labeled compds. I (* signifies the uniform labeling of the cyclohexane ring with ^{14}C) and II were prepared from aniline- ^{14}C in several steps. The title ^3H -labeled compds. were also prepared. The latter synthesis involved the tritiation of an allylglycine residue. The title compds. are potent inhibitors of angiotensin-converting enzyme.

ACCESSION NUMBER: 1988:631529 HCAPLUS

DOCUMENT NUMBER: 109:231529

TITLE: Synthesis of S9490-3 [U- ^{14}C -cyclohexyl] 1-[(2S)2-[(1S)1-(ethoxycarbonylbutyl)amino]-1-oxopropyl]-(2S,3aS,7aS)-perhydroindole-2-carboxylic acid tert-butylamine salt and S9780 [U- ^{14}C -cyclohexyl] 1-[(2S)2-[(1S)1-(carboxybutyl)amino]-1-oxopropyl]-(2S,3aS,7aS)-perhydroindole-2-carboxylic acid and of [3,4- ^3H -butylamino]S9490-3 and [(3,4- ^3H -)butylamino]S9780

AUTHOR(S): Pichat, L.; Tostain, J.; Gomis, J. M.; Coppo, M.; Moustier, A. M.; Vincent, M.; Remond, G.; Portevin, B.; Laubie, M.

CORPORATE SOURCE: CEN Saclay, Gif sur Yvette, 91191, Fr.

SOURCE: Journal of Labelled Compounds and Radiopharmaceuticals (1988), 25(5), 553-68

CODEN: JLCRD4; ISSN: 0362-4803

DOCUMENT TYPE: Journal

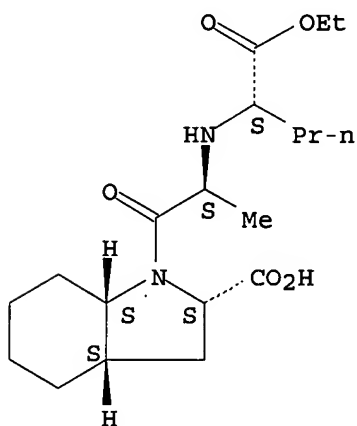
LANGUAGE: French

OTHER SOURCE(S): CASREACT 109:231529

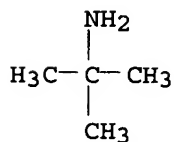
10/08/2006,10535187e.trn

IT 117770-49-7P 117770-64-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and saponification of)
RN 117770-49-7 HCAPLUS
CN 1H-Indole-2-carboxylic acid, 1-[2-[[1-(ethoxycarbonyl)butyl]amino]-1-
oxopropyl]octahydro-, labeled with carbon-14, [2S-
[1[R*(R*)],2 α ,3 α ,7 α]]-, compd. with
2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
CM 1
CRN 117770-48-6
CMF C19 H32 N2 O5
CIL XC-14

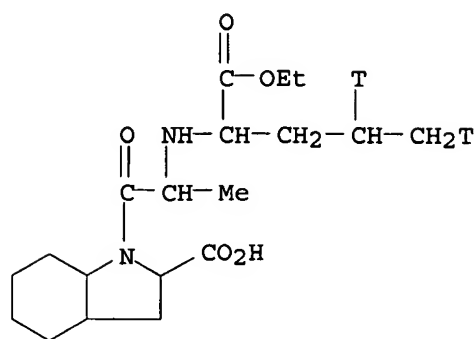
Absolute stereochemistry.



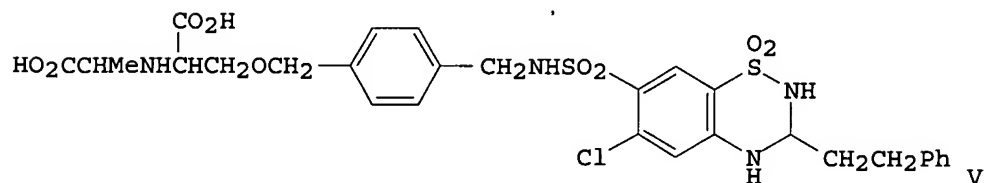
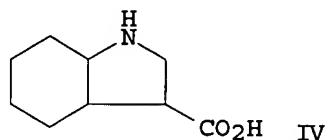
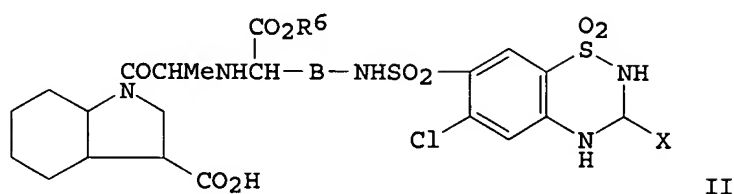
CM 2
CRN 75-64-9
CMF C4 H11 N



RN 117770-64-6 HCAPLUS
CN 1H-Indole-2-carboxylic acid, 1-[2-[[1-(ethoxycarbonyl)butyl-3,4-t2]amino]-
1-oxopropyl]octahydro- (9CI) (CA INDEX NAME)



L14 ANSWER 33 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 23 Jan 1988
 GI



AB D-SO₂NR₁-B-CH(COR₆)-E-CHR₇-CO-A-COR₈ [I; A = heterocycle residue, e.g., 1,2-pyrrolidinediyl, 1,2-perhydroindolediyl; B = (substituted) hydrocarbon residue, e.g., (CH₂)₄; D-substituted S,S-dioxo-3,4-dihydro-1,2,4-benzothiadiazin-7-yl; E = NH, O, S, CH₂], e.g., II [R₆ = H, B = (CH₂)₄, X = CH₂Cl] (III), useful for reducing intraocular pressure, are prepared. Dipeptide II (R₆ = Et, B = p-CH₂OCH₂C₆H₄CH₂, X = CH₂CH₂Ph) was prepared in many steps via alkylation of indole derivative IV with alanine derivative V followed by hydrogenolysis. An antiglaucoma composition (1 mL) (adjusted to pH 7.4 with 1N NaOH) for topical use contained III 10.0, NaH₂PO₄ 10.4, Na₂HPO₄ 2.4, chlorobutanol 5.0, hydroxypropyl methylcellulose 5.0 g, and water.

ACCESSION NUMBER: 1988:22286 HCAPLUS
 DOCUMENT NUMBER: 108:22286

TITLE: Preparation of peptides as antiglaucoma agents
 INVENTOR(S): Andrews, David R.; Gaeta, Federico C. A.
 PATENT ASSIGNEE(S): Schering Corp., USA
 SOURCE: U.S., 15 pp. Cont.-in-part of U.S. 4,556,655.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4634698	A	19870106	US 1985-721015	19850408
US 4556655	A	19851203	US 1984-653186	19840924
US 4826816	A	19890502	US 1985-784000	19851004
US 4885293	A	19891205	US 1986-892003	19860730
US 5015641	A	19910514	US 1989-349369	19890509
PRIORITY APPLN. INFO.:			US 1984-653186	A2 19840924
			US 1985-721015	A2 19850408
			US 1985-784000	A2 19851004
			US 1986-892003	A3 19860730

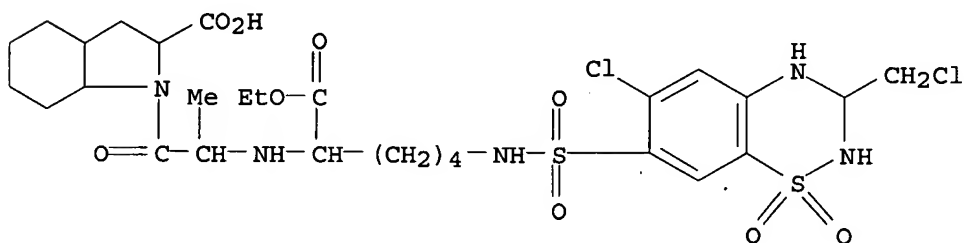
OTHER SOURCE(S): CASREACT 108:22286

IT 109854-18-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as antiglaucoma agent)

RN 109854-18-4 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[2-[[5-[[[6-chloro-3-(chloromethyl)-3,4-dihydro-1,1-dioxido-2H-1,2,4-benzothiadiazin-7-yl]sulfonyl]amino]-1-(ethoxycarbonyl)pentyl]amino]-1-oxopropyl]octahydro- (9CI) (CA INDEX NAME)



L14 ANSWER 34 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 19 Sep 1987

AB The title compds. useful in treatment of hypertension and glaucoma (no data) were prepared 1-[2-(S)-[[1-(S)-Carboxy-2-[4-[[[6-chloro-3,4-dihydro-3-(2-phenylethyl)-2H-1,2,4-benzothiadiazin-7-yl]sulfonylamino]methyl]phenylmethoxy]ethyl]amino]-1-oxopropyl]-(2S,3 α ,7 α)-octahydro-1H-indole-2-carboxylic acid S,S-dioxide prepared in 8 steps from N-tert-butoxycarbonyl-L-serine, was used in formulation of a capsule, tablet, and injectable solution

ACCESSION NUMBER: 1987:497126 HCAPLUS

DOCUMENT NUMBER: 107:97126

TITLE: Dipeptide derivatives containing sulfoamide group as antihypertensives having both diuretic and angiotensin converting enzyme inhibitory activity

INVENTOR(S): Andrews, David R.; Gaeta, Federico C. A.

PATENT ASSIGNEE(S): Schering Corp., USA

SOURCE: U.S., 16 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4556655	A	19851203	US 1984-653186	19840924
US 4634698	A	19870106	US 1985-721015	19850408
WO 8601803	A1	19860327	WO 1985-US1778	19850919
W: AU, DK, JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8549639	A1	19860408	AU 1985-49639	19850919
AU 581388	B2	19890216		
EP 195817	A1	19861001	EP 1985-905015	19850919
EP 195817	B1	19891018		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 62500241	T2	19870129	JP 1985-504453	19850919
AT 47399	E	19891115	AT 1985-905015	19850919
ZA 8507358	A	19860528	ZA 1985-7358	19850924
IL 76484	A1	19900209	IL 1985-76484	19850924
CA 1278150	A1	19901218	CA 1985-491447	19850924
US 4826816	A	19890502	US 1985-784000	19851004
DK 8602416	A	19860523	DK 1986-2416	19860523
US 4885293	A	19891205	US 1986-892003	19860730
US 5015641	A	19910514	US 1989-349369	19890509
PRIORITY APPLN. INFO.:			US 1984-653186	A2 19840924
			US 1985-721015	A2 19850408
			EP 1985-905015	A 19850919
			WO 1985-US1778	A 19850919
			US 1985-784000	A2 19851004
			US 1986-892003	A3 19860730

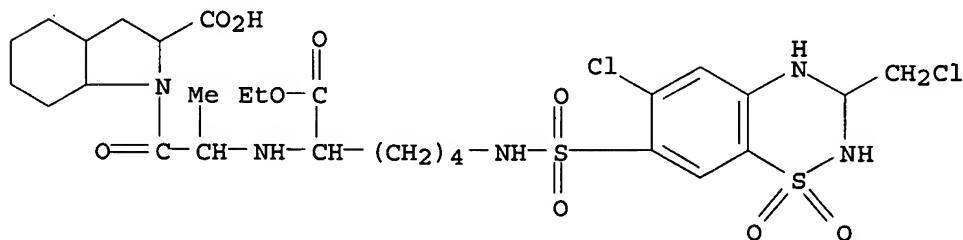
OTHER SOURCE(S): CASREACT 107:97126; MARPAT 107:97126

IT 109854-18-4P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as drug)

RN 109854-18-4 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[2-[[5-[[[6-chloro-3-(chloromethyl)-3,4-dihydro-1,1-dioxido-2H-1,2,4-benzothiadiazin-7-yl]sulfonyl]amino]-1-(ethoxycarbonyl)pentyl]amino]-1-oxopropyl]octahydro- (9CI) (CA INDEX NAME)



L14 ANSWER 35 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
 ED Entered STN: 13 Jul 1986

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I, II, X = Cl, CF₃; Y = (CH₂)_aCHONR₅ or (CH₂)_bNR₅CO; Z = (CH₂)_bCONR₅ or (CH₂)_cNR₅CO; B = Q-Q₄; R₁ = H, alkyl; R₂, R₅ = H, alkyl, Ph, phenylalkyl; R₃, R₄ = H, (substituted) alkyl, Ph or R₃R₄ may form a ring; R₆, R₈ = OH, (substituted) alkoxy, etc.; R₇ = H, (substituted) alkyl; a = 0-8; b = 1-8; c = 2-8; m = 1-4; n = 0, 1; p, q = 1, 0, 2] and their pharmaceutically acceptable salts, useful as antihypertensives (no data), were prepared. Thus, (2S)-[(benzyloxy)carbonyl]-S,S-perhydroindole was acylated with N-[(5S)-(ethoxycarbonyl)-5-(1S-carboxyethylamino)pentyl]-6-chloro-3,4-dihydro-1,1-dioxo-7-sulfamoyl-1,2,4-benzothiadiazin-3-yl]acetamide hydrochloride in DMF containing N-hydroxybenzotriazole hydrate and 1-[3-(dimethylamino)propyl]-3-ethylcarbodiimide-HCl at 0° to give, after deprotection of the intermediate, 1-[N-[(1S)-(ethoxycarbonyl)-5-[2-(6-chloro-3,4-dihydro-1,1-dioxo-7-sulfamoyl-1,2,4-benzothiadiazin-3-yl)acetamido]pentyl]-(S)-alanyl]-cis,syn-octahydroindole-(2S)-carboxylic acid. The prepared compds. are useful for treatment of congestive heart failure and glaucoma and had diuretic activity (no data).

ACCESSION NUMBER: 1986:406825 HCAPLUS

DOCUMENT NUMBER: 105:6825

TITLE: Benzothiadiazinyl and quinazolinyl substituted carboxylalkyl dipeptides useful as antihypertensive agents

INVENTOR(S): Neustadt, Bernard R.; Andrews, David R.; McNamara, Paul E.

PATENT ASSIGNEE(S): Schering Corp., USA

SOURCE: U.S., 12 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

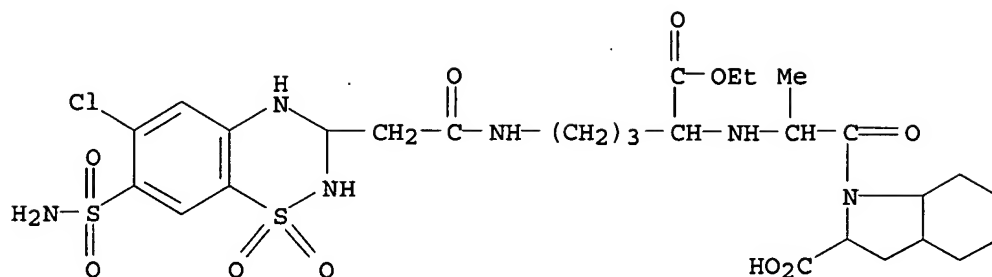
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4559340	A	19851217	US 1983-555311	19831125
US 4616012	A	19861007	US 1985-797104	19851112
US 4778795	A	19881018	US 1986-903545	19860903
US 4906635	A	19900306	US 1988-220183	19880718
US 5017567	A	19910521	US 1990-460425	19900103
PRIORITY APPLN. INFO.:			US 1983-555311	A2 19831125
			US 1985-797104	A3 19851111
			US 1986-903545	A3 19860903
			US 1988-220183	A3 19880718

IT 102605-78-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of)

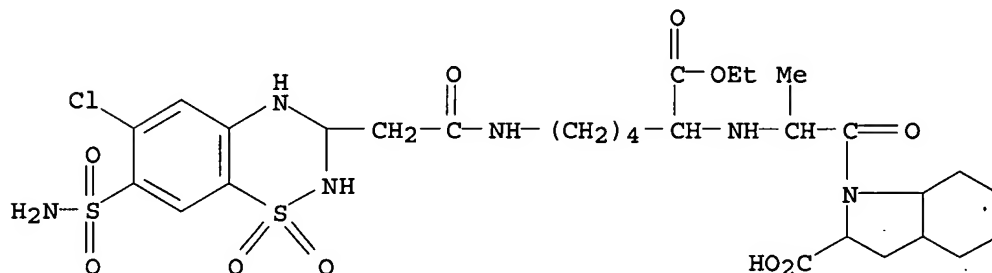
RN 102605-78-7 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[2-[[4-[[[7-(aminosulfonyl)-6-chloro-3,4-dihydro-1,1-dioxido-2H-1,2,4-benzothiadiazin-3-yl]acetyl]amino]-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, hydrobromide (9CI)
(CA INDEX NAME)

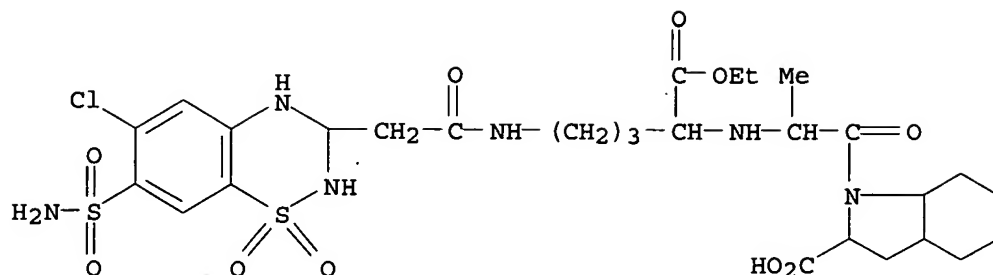


●x HBr

IT 102605-60-7P 102605-62-9P 102743-99-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of, as antihypertensive)
 RN 102605-60-7 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[2-[[5-[[[7-(aminosulfonyl)-6-chloro-3,4-dihydro-1,1-dioxido-2H-1,2,4-benzothiadiazin-3-yl]acetyl]amino]-1-(ethoxycarbonyl)pentyl]amino]-1-oxopropyl]octahydro- (9CI) (CA INDEX NAME)



RN 102605-62-9 HCAPLUS
 CN 1H-Indole-2-carboxylic acid, 1-[2-[[4-[[[7-(aminosulfonyl)-6-chloro-3,4-dihydro-1,1-dioxido-2H-1,2,4-benzothiadiazin-3-yl]acetyl]amino]-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, hydrochloride (9CI) (CA INDEX NAME)



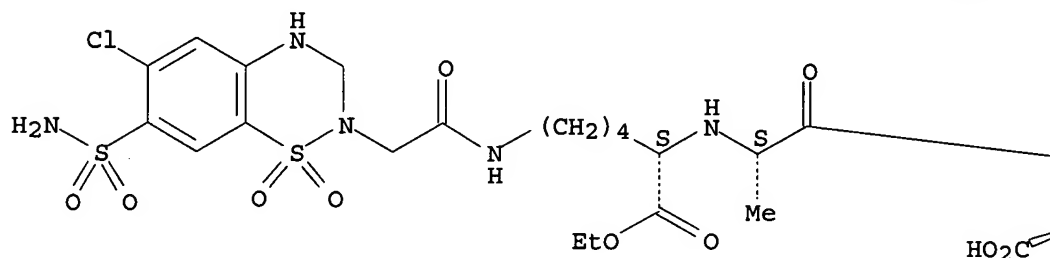
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RN 102743-99-7 HCAPLUS

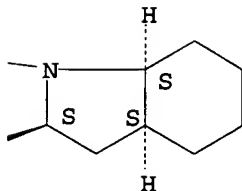
CN 1H-Indole-2-carboxylic acid, 1-[2-[[5-[[[7-(aminosulfonyl)-6-chloro-3,4-dihydro-1,1-dioxido-2H-1,2,4-benzothiadiazin-2-yl]acetyl]amino]-1-(ethoxycarbonyl)pentyl]amino]-1-oxopropyl]octahydro-, [2S-[1[R*(R*)],2α,3αβ,7αβ]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

194.08

TOTAL

SESSION

1069.31